

SEQUENCES

10032214 - 1322004

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|                 |                             | GCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTTGCTCACTGCGTAGTT<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTCGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO: 5 | Round 2<br>(R2)<br>CD28BP-1 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGTCACTGGCTTTTACTTCTGTCAGGCATACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACAAACACTGTCCCAAGATCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCCAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCCCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGTAGTT<br>TCTACCGCCCGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTCGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO: 6 | Round 2<br>CD28BP-2         | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGTCACTGGCTTTTACTTCTGTCAGGCATACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACAAACAGTTCCCAAGATCTGGAACGTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCCAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGTAGTT<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTCGCGCAATCCTCGGGCTGA     |
| SEQ ID<br>NO: 7 | Round 2<br>CD28BP-3         | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGTCACTGGCTTTTACTTCTGTCAGGCATACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACAAACAGTTCCCAAGATCTGGAACGTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCCAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGTAGTT<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTCGCGCAATCCTCGGGCTGA      |
| SEQ ID<br>NO: 8 | Round 2<br>CD28BP-4         | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGTCACTGGCTTTTACTTCTGTCAGGCATACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTGCTGGTTGGAAAATGGAGAA  |

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|              |                  | GAATTAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTTACATGATTAGCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGAACTGAAAGGCTGTCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID NO:9  | Round 2 CD28BP-5 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTAGCTCTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGACCAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTGGACAAAGGGCACCTACACCTGCGTGGTTAGAAGCCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAGCTGACTTCCCTGTCCCCTACCATAAATGATCTGGAAATCCATCTCTTAATATCAGAAGGCTAATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA GAATTAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTTACATGATTAGCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGAACTGAAAGGCTGTCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID NO:10 | Round 2 CD28BP-6 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTAGCTCTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGACCAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTGGACAGTGGCACCTACACCTGTTATTAGAAGCCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAGCTGACTTCCCTGTCCCCTACCATAAATGATCTGGAAATCCATCTCTTAATATCAGAAGGCTAATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA GAATTAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTTACATGATTAGCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGAACTGAAAGGCTGTCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA    |
| SEQ ID NO:11 | Round 2 CD28BP-7 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTAGCTCTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGACCAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTGGACAGTGGCACCTACACCTGTTATTAGAAGCCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAGCTGACTTCCCTGTCCCCTACCATAAATGATCTGGAAATCCATCTCTTAATATCAGAAGGCTAATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA GAATTAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTTACATGATTAGCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGAACTGAAAGGCTGTCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGATGA    |
| SEQ ID NO:12 | Round 2 CD28BP-8 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTAGCTCTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGACCAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTGGACAGTGGCACCTACACCTGTTATTAGAAGCCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAGCTGACTTCCCTGTCCCCTAGCATAACTGACATTGGACATCCGCCCCTAATGTGAAAAGGAT   |

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|                 |                      | AAGATGCTCCGCCCTGGAGGTTTCCAGAGCCTGCCTGGATGGAAGATGGAGAA<br>GAACTAACCGCCGTCAACACGACGGTGCACCAGGATTGGACACGGAGCTCACAGCGTC<br>GCAGTGAACGGATTCCAATGTGACAATAACCAACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGACAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:13 | Round 2<br>CD28BP-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGCTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGGACACTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACATAAAATGATCTGGAAATCCATCTCTAATATCAAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTCTGGCAAGATCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAATAACCAACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGACAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:14 | Round 2<br>CD28BP-10 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACGCACATCCACTGAAGAAGCTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGGGCACCTACACCTGCGTGGTTCAAAG<br>AATGAGAACGGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCTAGCATACTGACATTGGACATCCGCCCTAATGTGAAAGGATAAG<br>ATGCTCCGCTCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAAGGATTGGACACGGAGCTCACAGCGTCAGCA<br>GTGAACTGGATTCAATGTGACAATAACACACAGCATCGTGTCTCATCAAATACGGGAA<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAAACCCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTTCTCT<br>ACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGACAGT<br>GGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:15 | Round 2<br>CD28BP-11 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACGCACATCCACTGAAGAAGCTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGGGCACCTACACCTGCGTGGTTCAAAG<br>AATGAGAACGGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCTAGCATACTGACATTGGACATCCGCCCTAATGTGAAAGGATAAG<br>ATGCTCCGCTCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAAGGATTGGACACGGAGCTCACAGCGTCAGCA<br>GTGAACTGGATTCAATGTGACAATAACACACAGCATCGTGTCTCATCAAATACGGGAA<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAAACCCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTTCTCT<br>ACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGACAGT<br>GGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:16 | Round 2<br>CD28BP-12 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACGCACATCCACTGAAGAAGCTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGGACACTGACTTCCGTGAGGTTAATGATCAGAG   |

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|                 |                      | CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCACCTCTGGAGGTTTCCAAGGCCACCTACTGGTGAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTCCAAGATCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTCTACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:17 | Round 2<br>CD28BP-13 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCATGCCCTCTGGCTCTC<br>AGCTCTTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACTAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGGCCCTGCGGACAGTGGCACCTACACCTGTGTTATTCAAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAACAA<br>GAACAAACCGCTCAACACAGCAGGGTGTGACAGGATTGGACACGGAGCCTACAGCGTCA<br>GCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTCTACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:18 | Round 2<br>CD28BP-14 | ATGGGCCACACGCTGAGGCCGGAACTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGTCTCCACTTCTCAGGTATCAGCCAGGTCAACAAAGTCGGT<br>GAAAGAAATGGCGCACTGCTGTGATTACAACATTCTATCGATGAACGGCAGAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTGGCAAGTGGAG<br>TGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTATTGTGAT<br>CCTGGCTCTGCCCTGCGGACAGTGGCACCTACACCTGTGTTATTCAAGAAGCTGTTTG<br>AAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAGCTGACTTCC<br>CTGCCCCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCTAATTGCTC<br>AACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAACAA<br>GCTACCAACACACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTAGCAGTGAAC<br>TGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGAGCTGTC<br>GGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGATCAGCTTCCA<br>TTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGTCACTGCGGTAGTTCTACTGCC<br>TGGCCTGCAGACATGTTGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA                          |
| SEQ ID<br>NO:19 | Round 2<br>CD28BP-15 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCATGCCCTCTGGCTCTC<br>AGCTCTTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCCCTGCGGACAGTGGCACCTACACCTGTGTTATTCAAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGTCACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA       |
| SEQ ID<br>NO:20 | Round 2<br>CD28BP-16 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCATGCCCTCTGGCTCTC<br>AGCTCTTGGTGTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCACTGCCCTGCGGACAGTGGCACCTACACCTGTGTTATTCAAGAAG  |

10032214 - 122004

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|                  |                              | CCTGTTTGAAGGGCTTATAAACCTGGAGCACCTGACTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCTACCATAAATGATCTGGAAATCCATCTCTAAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTCCAAGGCCACCTACTGGTGAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTCCAAGATCTGGACTGAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAACCACAGCAGTCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGTCAATTCCCAGTAAGTGGTGTCTTGGTGTGCTACTGTGGTAGTTCT<br>TCTACTGCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAGAAGGAATGAAGAGACAGT<br>GGAACTGAAAGGCTGTCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO: 21 | Round 2<br>CD28BP-17         | ATGGGTACACAAATGAAGTGGGGATCACTACCACCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGTCACTGGCTTTTACTTCTGTTCAGGCATACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGACTACAAAAACCGCACCTCCCCGACATCATTAACAACCTCTC<br>CCTTATGATCTGGCACTGCGCTGCGACAAGGGCACCTACACCTGCGTGGTTCAGAAG<br>AATGAGAACGGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCTAGCATAACTGACATTGGACATCCCCTCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCCTCGGAGATTTCAGAGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCACACAGCAGGGTGAACAGGAGTTGGACACGGACTCACAGCGTCAGCA<br>GTGAACTGGATTCAATGTGACAAATAACCACAGCATGTCGTCTCATCAAATACGGGAA<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGTCAATTCCCAGTAAGTGGTGTCTTGGTGTGCTACTGTGGTAGTTCT<br>ACTGCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAGAAGGAATGAAGAGACAGT<br>GGAACTGAAAGGCTGTCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO: 22 | Round 1<br>(R1)<br>CTLA4BP-5 | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTGGCTGGTCTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAAACCTCTCCATTGT<br>GATTCTGGCTCTGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGGAACCTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCAT CCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGTGTATGCTGCCGTGACCT<br>ACTGCTTGGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                    |
| SEQ ID<br>NO: 23 | Round 1<br>CTLA4BP-7         | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAATTCTTC<br>AGCTCTGGTGTGGCTGGCTGGTCTTCTCATTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGGAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAAACCTCTCCATTGT<br>GATTCTGGCTCTGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTGCCCTCCTGGTTGGAAAATGGAGAAGAAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCAT CCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGTGTATGCTGCCGTGACCT<br>ACTGCTTGGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                     |
| SEQ ID<br>NO: 24 | Round 1<br>CTLA4BP-<br>11    | ATGAGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTAGTCTTCTCACTTCTGTTCAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAAACCTCTCCATTGT  |

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|                  |                                | GATTCTGGCTCTGCGCCCACATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAAGATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGCTCCAAAGATCCTGAAACTGAGCTCATGCTGAGTATGCTGAC<br>TGGATTCAATATGACAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACAACCAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTAACCTAGTAATGGAAATTGTTGTGATATGCTGCCTGACCC<br>ACTGTTGCCCCAAGATGCAGAGAGAGAAGGAGAATGAGAGACTGAGAAGGGAAAGTGT<br>ACACCTGTATGA  |
| SEQ ID<br>NO: 25 | Round 1<br>CTLA4BP-<br>13      | ATGGGCCACACACGGAGGCAGGGAAATATCACCACCTCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTGGTCTGGCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCAGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCCGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAGCCAATCACAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACAACCAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTAACCTAGTAATGGAAATTGTTGTGATATGCTGCCTGACCC<br>ACTGTTGCCCCAAGATGCAGAGAGAGAAGGAGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA       |
| SEQ ID<br>NO: 26 | Round 1<br>CTLA4BP-<br>27      | ATGAGCCACACACGGAGGCAGGGAAATATCACCACCTCAAGTGTCCATACCTCAATTCTTTC<br>AGCTCTGGTCTGGCTAGTCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCAGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAGCCAATCACAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACAACCAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTAACCTAGTAATGGAAATTGTTGTGATATGCTGCCTGACCC<br>ACTGTTGCCCCAAGATGCAGAGAGAGAAGGAGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO: 27 | Round 2<br>CTLA4BP-<br>5x2-10c | ATGGGCCACACACGGAGGCAGGGAAATATCACCACCCAGTGTCCATACCTCAATTCTTTC<br>AGCTCTGGTCTGGCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCAGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAGCCAATCACAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACAACCAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTAACCTAGTAATGGAAATTGTTGTGATATGCTGCCTGACCC<br>ACTGTTGCCCCAAGATGCAGAGAGAGAAGGAGAATGAGACACTGAGAAGGGAAAGTGT<br>CCCTGTATGA           |
| SEQ ID<br>NO: 28 | Round 2<br>CTLA4BP-<br>5x2-11d | ATGAGCCACACACGGAGGCAGGGAAATATCACCACCTCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTGGTCTGGCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCAGGGACATGA   |

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|                  |                                | ATATATGGCCCGAGTACAAGAACCGGACCATTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGAGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGGAAGAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGTTGATATGCTGCCGTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAA  |
| SEQ ID<br>NO: 29 | Round 2<br>CTLA4BP-<br>5x2-12F | ATGAGCCACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTAGTCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAAGAAAATGGTGCTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGTTGATATGCTGCCGTGACCT<br>ACCGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAA |
| SEQ ID<br>NO: 30 | Round 2<br>CTLA4BP-<br>5x2-2g  | ATGGGCCACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTTGTCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAAGAAAATGGTGCTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGTTGATATGCTGCCGTGACCT<br>ACCGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAA |
| SEQ ID<br>NO: 31 | Round 2<br>CTLA4BP-<br>5x2-3c  | ATGGGCTACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTTGTCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGG<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGCCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAAGAAAATGGTGCTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTAGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGTTGATATGCTGCCGTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATAAG |
| SEQ ID<br>NO: 32 | Round 2<br>CTLA4BP-<br>5x2-4c  | ATGAGCCACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTAGTCTTCTCATTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCAATGTTCTGTTGAAGAGCTGGCACAA   |

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|                  |                                | ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACCGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGACGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCTGAGCCTCACCTCTGGCTGGAAAATGGGGAGAATTAAAT<br>GGCATCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAATCACAGTTGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCTGTATGAG  |
| SEQ ID<br>NO: 33 | Round 2<br>CTLA4BP-<br>5x2-7b  | ATGAGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCATACCTCAAGTTCTTC<br>GGCTCTTGGTGTGGCTAGTCTTCTCATTCTGTTCAAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACCGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAAGCGAGAACACCTAGCTGAAGTGTACGTTATCAGTCAAAGCTGGCTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCTGAGCCTCACCTCTGGCTGGAAAATGGGGAGGAAATTAAAT<br>GGCATCAACACAACAGTTCCAAGACCCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGTTGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCTGTATGAG  |
| SEQ ID<br>NO: 34 | Round 2<br>CTLA4BP-<br>5x2-8c  | ATGAGGCCACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTTGGTGTGGCTAGTCTTCTCATTCTGTTCAAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACCGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAAGCGAGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCTGAGCCTCACCTCTGGCTGGAAAATGGGGAGGAAATTAAAT<br>GGCATCAACACAACAGTTCCAAGACCCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGTTGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCTGTATGAG      |
| SEQ ID<br>NO: 35 | Round 2<br>CTLA4BP-<br>5x3-10e | ATGGGCTACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTTGGTGTGGCTTGTCTTCTCATTCTGTTCAAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACCGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGACGCTTCAAGCGGGAACACCTGGCTGAAGTGTACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCTGAGCCTCACCTCTGGCTGGAAAATGGGGAGGAAATTAAAT<br>GGCATCAACACAACAGTTCCAAGACCCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTTGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGGAGGAATGAGAGACTGAGAAGGGAAAGTGT<br>ACACCTGTATGAG |
| SEQ ID<br>NO: 36 | Round 2<br>CTLA4BP-            | ATGAGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTTGGTGTGGCTTGTCTTCTCATTCTGTTCAAGGTGTTATCCACATGACCAAGGA   |

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|              | 5x3-11b                 | AGTGAAGAAGTGGCAACGCTGTCCTGGTCACAATGTTCTGTTGAAGAGCTAGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAACAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCCTCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTAGCTGAAGTGACGTTACGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCAGCCTGACGAGGGCACATACGAGTGTGTTCTGGAGGAAATGGAGAAGGAAATTAAAT<br>GCCATCAACACAACAGCTTCCAGATGAAACTGAGCTCTACACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGGCCT<br>ACTGCTTGCCCCAGGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGAA   |
| SEQ ID NO:37 | Round 2 CTLA4BP-5x3-6f  | ATGGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCGTACCTCAATTCTTT<br>AGCTCTTGGTCTGGCTTCTCACTCTGTTCACTTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAACAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCCTCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAT<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGACGTTGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTTGAAATTCCACCTCTAAACATTAGAAGGATAATTGCTC<br>AACCTCCGGAGGTTTCAGCCTGACGAGGGCACATACGAGTGTGTTCTGGAGGAAATGGAGAAGGAAATTAAAT<br>GCCATCAACACAACAGCTTCCAGATGAAACTGAGCTCTACACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGGCCT<br>ACCGCTTGCCCCAGGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGAC      |
| SEQ ID NO:38 | Round 2 CTLA4BP-5x4-11d | ATGGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGTGTCCATACCTCAAGTCTTT<br>AGCTCTTGGTCTGGCTTCTCATCTGTTCACTTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAACAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCCTCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAT<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGACGTTGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTTGAAATTCCACCTCTAAACATTAGAAGGATAATTGCTC<br>AACCTCCGGAGGTTTCAGCCTGACGAGGGCACATACGAGTGTGTTCTGGAGGAAATGGAGAAGGAAATTAAAT<br>GCCATCAACACAACAGCTTCCAGATGAAACTGAGCTCTACACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGGCCT<br>ACCGCTTGCCCCAGGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGAA       |
| SEQ ID NO:39 | Round 2 CTLA4BP-5x4-12c | ATGGGCCACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCATACCTCAAGTCTTT<br>AGCTCTTGGTCTGGCTTCTCATCTGTTCACTTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTGCTCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAACAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCCTCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTTGAAATTCCACCTCTAAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCAGCCTGACGAGGGCACATACGAGTGTGTTCTGGAGGAAATGGAGAAGGAAATTAAAT<br>GCCATCAACACAACAGCTTCCAGATGAAACTGAGCTCTACACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGGCCT<br>ACCGCTTGCCCCAGGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGAA |
| SEQ ID       | Round 2                 | ATGGGCCACACACGGAGGCAGGGAAACATCACCCTCAAGTGTCCATACCTCAAGTCTTT  |

10032214 - 122001

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| NO: 40           | CTLA4BP-5x4-1f            | AGCTCTGGTATGGCTTCTCATTCTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTAAAGAAGTGGCAACACTGTCCTGTTGACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAAGCGAGAACACCTGGCTGAAGTGTATCCGCAAAGCTGACTTCC<br>CTACACCTAGTATCTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGCCTCACCTCTGGTGGAAAATGGAGAACATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGAAATTGTGATATGCTGCCGTGACCC<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAACAGGAGAATTGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC   |
| SEQ ID<br>NO: 41 | Round 2<br>CTLA4BP-5x5-2e | ATGGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGGTCTTC<br>AGCTCTGGTCTGGCTGGCTTCCTCATCTCTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTAAAGAAGTGGCAACACTGTCCTGTTGACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGCCTCACCTCTGGTGGAAAATGGAGAACATTAAAT<br>GCCATCAGCACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGAAATTGTGATATGCTGCCGTGACCC<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAACAGGAGAATTGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC |
| SEQ ID<br>NO: 42 | Round 2<br>CTLA4BP-5x5-6e | ATGGGCCACACACGGAGGCAGGGAAATATCACCCTCAAGGTCTTC<br>AGCTCTGGTCTGGCTGGCTTCCTCATCTCTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTAAAGAAGTGGCAACACTGTCCTGTTGACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGCCTCACCTCTGGTGGAAAATGGAGAACATTAAAT<br>GCCATCAGCACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCACAGCTCATGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGCAAATGAAATTGTGATATGCTGCCGTGACCC<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAACAGGAGAATTGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC |
| SEQ ID<br>NO: 43 | Round 2<br>CTLA4BP-5x6-9d | ATGAGCCCACACACGGAGGCAGGGAAACATCACCCTCAAGGTCTTC<br>AGCTCTGGTCTGGCTGGCTTCCTCATCTCTGTCAGGTGTTATCCACGTGACCAAGGA<br>AGTAAAGAAGTGGCAACACTGTCCTGTTGACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAAGCGAGAACACCTGGCTGAAGTGTATCCGCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGCCTCACCTCTGGTGGAAAATGGAGAACATTAAAT<br>GCCATCAGCACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTCAATATGACAAGCAATCACAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGCCATTACCTTAATCTCAGTAAATGAAATTGTGATATGCTGCCGTGACCC<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAACAGGAGAATTGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAT   |

10032244-122001

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| SEQ ID NO: 44 | Round 2<br>CTLA4BP-5x8-1f  | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCGTACCTCAATTCTTTC AGCTCTTGGTGTGGCTTGTCTTCTCATTCTGTTAGGGTGTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACACTGTCCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA AAAGACGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC CTACACCTAGTATAACTGACTTGAATTCCACCTTCAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTTATGTTAGCAGCAAAC TGGATTCAATATGACAACCAACCACAGCTTCAACTGTGTCTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT ACGCCCTGTATGAG    |
| SEQ ID NO: 45 | Round 2<br>CTLA4BP-5x9-12c | ATGGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCGTACCTCAATTCTTTC AGCTCTTGGTGTGGCTTGTCTTCTCATTCTGTTAGGGTGTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACGCTGTCCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA AAAGACGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC CTACACCTAGTATAACTGACTTGAATTCCACCTTCAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTTATGTTAGCAGCAAAC TGGATTCAATATGACAACCAATCACAGTTTGTTGTGTCTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT ACGCCCTGTATGAG      |
| SEQ ID NO: 46 | Baboon<br>B7-1             | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAAGTCTTTC AGCTCTTGGTGTGGCTTGTCTTCTCATTCTGTTAGGGTGTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACACTGTCCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA AAAGATGCTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC CTACACCTAGTATAACTGACTTGAATTCCACCTTCAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTTATGTTAGCAGCAAAC TGGATTCAATATGACAACCAATCACAGTTTGTTGTGTCTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT ACGCCCTGTATGAG      |
| SEQ ID NO: 47 | Orangutan<br>B7-1          | ATGGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCATACCTCAATTCTTTC AGCTCTTGGTGTGGCTAGTCTTCTCATTCTGTTAGGGTGTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACGCTGTCCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCGAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATCCTGGCTCTGCGCCCATCTGACGAGGGCACATATGAGTGTGTTCTGAAGTATGAA AAAGACGCTTCAAGCGGGAACACCTGGCTGAAGTGTGACGTTATGGTCAAAGCTGACTTCC CTACACCTAGTATACTGACTTGAATTCCAACCTTCAATATTAGAAGGATGATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGAGAAGAATTAAAT GCCATCAGCACAACAGTTCCAAGATCCTGGAACTGAGCTTATGTTAGCAGCAAAC TGGATTCAATATGACAACCAACCACAGCTTCACTGTGTCTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT ACGCCCTGTATGAG |

10032214-122003

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|               |                                    | ACGCCCTGTATGA   |
| SEQ ID NO: 48 | Round 1<br>CD28BP-71<br>(Clone 71) | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T LS QDP ET KLYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QHL TWII IPV SAFG IS VII AIV ILT CL CRNA AIR QR RENE EM QSC SQSP         |
| SEQ ID NO: 49 | Round 1<br>CD28BP-84<br>(Clone 84) | MGHTLRPGTPLPRCLHLKLCLLLALAGLFHSSG ISQVTKSVKEMAALSCDYNISIDE LARM<br>RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>GSFR REH LT SVL SIRAD F PVPS IT DIGH PAP NVK RIRCS ASGGF PE PRLA WME DEEL NA<br>VNT TVD QD LD TEL YS VS SEL DF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>WVI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG                       |
| SEQ ID NO: 50 | Round 1<br>CD28BP-118              | MGHTLRPGTPLPRCLHLKLCLLLALAGLFHSSG ISQVTKSVKEMAALSCDYNISIDE LARM<br>RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>GSFR REH LT SVL SIRAD F PVPS IT DIGH PAP NVK RIRCS ASGGF PE PRLA WME DEEL NA<br>VNT TVD QD LD TEL YS VS SEL DF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>WVI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG                       |
| SEQ ID NO: 51 | Round 1<br>CD28BP-126              | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PDL KGAY KLEH LT SVL SIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG  |
| SEQ ID NO: 52 | Round 2<br>CD28BP-1                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 53 | Round 2<br>CD28BP-2                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T LS QDP ET KLYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 54 | Round 2<br>CD28BP-3                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 55 | Round 2<br>CD28BP-4                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLC WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 56 | Round 2<br>CD28BP-5                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LT SVL SIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG  |
| SEQ ID NO: 57 | Round 2<br>CD28BP-6                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 58 | Round 2<br>CD28BP-7                | MGHTMKW RSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DLGN P SPN IR RLIC ST SGGF PR PHLY WLEN GE<br>ELN ATNT T VS QDP GT ELYMISSE LDF NVT NNHSIV C LIKY GEL SVS QIF PWS KPK QE PPID<br>QLP FWI IPV SGAL VLT AVV LY CLAC RHVAR WKR TRR NEETVGTERL SPI YLG SAQSSG |
| SEQ ID NO: 59 | Round 2<br>CD28BP-8                | MGHTMKW GSL PPKR PCL WLSQLLVLTGLFYFC SGITPK SVTK RVKETVMLSCD YNT STEEL<br>TSL RIY WQ KDS KM VL AIL PGK VQ WPEY KNRT ITDMNDN PRIVI ALRL SDG TYC VI QK<br>PVL KGAY KLEH LAS VRL MIRAD F PVPS IT DIGH PAP NVK RIRCS ASGGF PE PRLA WME DEEL   |

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|               |                   | ELNAVNTTVDQDLDTELYSVSSELDNSVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPIDQLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG  |
| SEQ ID NO: 60 | Round 2 CD28BP-9  | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE ELNA NT TT V S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG   |
| SEQ ID NO: 61 | Round 2 CD28BP-10 | MGHTMKW RSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LT SV RL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE ELNA NT TT L S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG  |
| SEQ ID NO: 62 | Round 2 CD28BP-11 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DYN AS TEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD KG FTY C VV QK NENG SF R REH L T SV TL SIRAD F PVPS IT DIGH PAP NV K RI CSAS GG FPEP RL AW MEDGE E LNA NT TT V D QD LD T ELYS V S S ELD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG   |
| SEQ ID NO: 63 | Round 2 CD28BP-12 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE ELNA NT TT V S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG   |
| SEQ ID NO: 64 | Round 2 CD28BP-13 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPEP RL AW MEDGE E LNA NT TT V D QD LD T ELYS V S S ELD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG |
| SEQ ID NO: 65 | Round 2 CD28BP-14 | MGHTLRPGTPLPRCLHLKLCLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDEARM RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE E LN AT TT V S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG                            |
| SEQ ID NO: 66 | Round 2 CD28BP-15 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL PSD SG FTY C VI QK PVL KGAY KLEH LAS VRL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE ELNA NT TT V S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG  |
| SEQ ID NO: 67 | Round 2 CD28BP-16 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT I TD MNDN PRIVI AL RL SD SG FTY C VI QK PVL KGAY KLEH LT SV RL MIRAD F PVPT IN DL GN P SPN IR RL IC ST SG G FPR PH LY W L ENGE ELNA NT TT V S QDP GT ELYM ISSE LD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT AVV LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG  |
| SEQ ID NO: 68 | Round 2 CD28BP-17 | MGHTMKW GSL PPKR PCL WLS QLL VLT GLF YFC SGI TP KSV T KRV KET VML SC DY NT STEEL TSL RIY WQ KDS KM VL AIL PGK VQ VPEY KNRT FD I IN NL SML I AL RL SD KG FTY C VV QK NENG SF R REH L T SV TL SIRAD F PVPS IT DIGH PAP NV K RI CSAS GD FPEP RL AW MEDGE E LNA NT TT V D QD LD T ELYS V S S ELD FN VT NN H SIV CL IKY GEL SV SQ IF PW SP KP QE PP ID QLP FWVI IPV SGAL VLT VV V LY CLAC RH VAR WKTR R NEET VGTER LSP I YLG SAQ SSG |
| SEQ ID NO: 69 | Round 1 CTLA4BP-5 | MGHTRRQGISPSKCPYLKFQLLVLAGLSHFCSGVIHVTKEVATLSCGHNVSVEELAQ TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVIALRPSDEGTYECVVLKYE KDAFKREHLAEVTL SVKA DFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLEN GEELN AINTT VS QDP GT ELYT VSS KLD FN MTN HS FM CL IKY GHL RVN QT FWN TPK QEH FPD NLL PSWAI TLISVN G IFVICCL TYCFAPCRERRRNERL RRES VRPV  |
| SEQ ID NO: 70 | Round 1 CTLA4BP-7 | MGYTRRQGTSPSKCPYLKFQLLVLAGLSHFCSGVIHVTNEVKEVATLSCGHNVSGEELAQ TRIY WQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVIALRPSDEGTYECVVLKYE KDAFKREHLAEVML SVKA DFPTPSITDFEIPPSNIRRIICLTSGGFPEP RL AW MKD GEELN AISTT VS QDP GT ELYA VSS KLD FN MTN HS FM CL IKY GHL RVN QT FSWNTPK QEH FPD NLL PSWAI TLISVN G IFVICCL TYCFAPCRERRRNERL RRES VRPV   |
| SEQ ID NO: 71 | Round 1 CTLA4BP-  | MSHTRRQGTSPSKCPYLKFQLLVLA SLS HFCSGVIHMTKEVATLSCGHNVSVEELAQ TRIY WQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVIALRPSDEGTYECVVLKYE  |

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|               | 11                         | KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTHCFAPCRERRRNERLRRRESVHPV  |
| SEQ ID NO: 72 | Round 1<br>CTLA4BP-13      | MGHTRRQGISPSKCPYLKFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVTL SVKA DFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTPNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPCRERKSNERLRRRESVHPV   |
| SEQ ID NO: 73 | Round 1<br>CTLA4BP-27      | MSHTRRQGISPSKCPYLNFQLLVLASLSHFCGVIHVTKEVATLSCGLNVSEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRNETLRRRESVHPV     |
| SEQ ID NO: 74 | Round 2<br>CTLA4BP-5x2-10c | MGHTRRQGISPPKCPYLNFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRNETLRRRESVHPV     |
| SEQ ID NO: 75 | Round 2<br>CTLA4BP-5x2-11d | MSHTRRQGISPSKCPYLKFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTDRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPCRERKSNETLRRRESVHPV     |
| SEQ ID NO: 76 | Round 2<br>CTLA4BP-5x2-12f | MSHTRRQGISPSKCPYLKFQLLVLASLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIKRIICSTSGGFPEPHLSWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNPL<br>PSWAITLISANGIFVICCLTYCFAPCRERKSNETLRRRESVHPV     |
| SEQ ID NO: 77 | Round 2<br>CTLA4BP-5x2-2g  | MGHTRRQGTSPSKCPYLKFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYRFAPCRERKSNERLRRRESVHPV     |
| SEQ ID NO: 78 | Round 2<br>CTLA4BP-5x2-3c  | MGYTRRQGTSPSKCPYLKFQLLVLACLSHFCGVIHVTREVKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRRESVCPV  |
| SEQ ID NO: 79 | Round 2<br>CTLA4BP-5x2-4c  | MSHTRRQGTSPSKCPYLKFQLLVLASLSHFCGVIHVTKEVATLSCGLNVSEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLEN<br>GEELNGINTTVSQDPETELYTVSSKLDNFNMTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRRESVHPV     |
| SEQ ID NO: 80 | Round 2<br>CTLA4BP-5x2-7b  | MSHTRRQGISPSKCPYLKFQLLVLASLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPGTELYTVSSKLDNFNMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPCRERRRNERLRRRESVHPV    |
| SEQ ID NO: 81 | Round 2<br>CTLA4BP-5x2-8c  | MSHTRRQGTSPSKCPYLKFQLLVLASLSHFCGVIHMTKEVATLSCGHNVSEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKQEHLAEVMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLF<br>WLEN<br>GEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPCRERRRNERLRRRESVHPV |
| SEQ ID NO: 82 | Round 2<br>CTLA4BP-5x3-10e | MGYTRRQGISPSKCPYLKFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGT<br>YECVVLKYE<br>KDAFKREHLAEVTL SVKA DFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCLIYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPCRERKSNERLRRRESVHPV    |
| SEQ ID        | Round 2                    | MSHTRRQGISPSKCPYLKFQLLVLACLSHFCGVIHVTKEVATLSCGHNVSEELAQ  |

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| NO:83        | CTLA4BP-5x3-11b            | TRIYWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVTLVSKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTVSQDPETELYTVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYCFAPCRERRSNERLRRESVRPV  |
| SEQ ID NO:84 | Round 2<br>CTLA4BP-5x3-6f  | MGHTRRQGISPSKCPYLKFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIYWKKGKMKVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTVSQDPETELYTVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISANGIFVICCLAYCFAPGRERKSNERLRRESVRPV  |
| SEQ ID NO:85 | Round 2<br>CTLA4BP-5x4-11d | MGHTRRQGISPSKCPYLKFQLLVLAGLSHLCGVHVTKEVATLSCGLNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLF<br>AINTTVSQDPETELYTVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYRFAPCRERKSNERLRRESVRPV      |
| SEQ ID NO:86 | Round 2<br>CTLA4BP-5x4-12c | MGHTRRQGTSPSKCPYLKFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLF<br>AINTTVSQDPETELYTVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISANGIFVICCLTYRFAPCRERKSNETLRRESVRPV      |
| SEQ ID NO:87 | Round 2<br>CTLA4BP-5x4-1f  | MGHTRRQGTSPSKCPYLKFQLLVMACLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLF<br>AINTTVSQDPETELYAVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYCFAPCRERRNRNERLRRESVCV      |
| SEQ ID NO:88 | Round 2<br>CTLA4BP-5x5-2e  | MGHTRRQGISPSKCPYLKFQLLVLAGLPHLCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTVSQDPETELYAVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISANGIFVICCLTHCFAPCRERKRNERLRRESVRPV  |
| SEQ ID NO:89 | Round 2<br>CTLA4BP-5x5-6e  | MGHTRRQGISPSKCPYLKFQLLVLAGLPHLCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTVSQDPETELYTVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTTKQEHFPDN<br>PSWAITLISANGIFVICCLTHCFAPCRERKRNERLRRESVRPV  |
| SEQ ID NO:90 | Round 2<br>CTLA4BP-5x6-9d  | MSHTRRQGTSPSKCPYLKFQLLVLAGLSHLCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTVSQDPETELYAVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYCFAPCRERRNRNERLRRESVRPV |
| SEQ ID NO:91 | Round 2<br>CTLA4BP-5x8-1f  | MGHTRRQGISPSKCPYLNFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSA<br>AINTTVSQDPETELYAVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYCFAPCRERKSNERLRRESVRPV                |
| SEQ ID NO:92 | Round 2<br>CTLA4BP-5x9-12c | MGHTRRQGTSPSKCPYLKFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIHWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLEN<br>AINTTA<br>PSWAITLISVNGIFVICCLTYCFAPCRERKSNERLRRESVRPV   |
| SEQ ID NO:93 | Baboon<br>B7-1             | MGHTRRQGISPSKCPYLKFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIYWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLF<br>AINTTVSQDPGT<br>PSWAITLISVNGIFVICCLTYCFAPCRERRNRNETLRRESVRPV  |
| SEQ ID NO:94 | Orangutan<br>B7-1          | MGHTRRQGTSPSKCPYLNFQLLVLAGLSHFCGVHVTKEVATLSCGHNVSEELAQ<br>TRIYWKKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVV<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRMIC<br>AINTTVSQDPETELYAVSSKLDNFNMTTNSFVCLIKYGHLRVNQTFNWNTPKQEHFPDN<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRSNERLRRESVRPV                 |

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| SEQ ID NO: 95 | Round 2<br>CD28A12-5 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTCAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGNTGCTGGCATCCTGCCTGGAA<br>AAGTCAGGTGTGGCTGAGTACAAGAACCGTACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACTGTCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA<br>CCAAGCTTAAGTTNA   |
| SEQ ID NO: 96 | Round 2<br>CD28A4-5* | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTCAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGNTGCTGGCATCCTGCCTGGAA<br>AAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACTGTCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAGGTA<br>CCAAGCTTAAGTTNA |
| SEQ ID NO: 97 | Round 2<br>CD28A4-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTCAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGNTGCTGGCATCCTGCCTGGAA<br>AAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACTGTCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>TCTACTGCCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAGGTA<br>CCAAGCTTAAGTTNA |
| SEQ ID NO: 98 | Round 2<br>CD28A6-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTCAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAGGATAGTAAAATGNTGCTGGCATCCTGCCTGGAA<br>AAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACATGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACTGTCCCAGTAACTGGGCTTGGTGCCTACTGGGTAGTTC<br>CAGCTCCATTCTGGTCACAGATCTCCCTGGAGCAAACCCAGCAGCAGGAGCCTCCATTGAT<br>GGAGCTGTCGGTGCACAGATCTCCCTGGAGCAAACCCAGCAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGTCACAGATCTCCCTGGAGCAAACCCAGCAGCAGGAGCCTCCATTGAT                  |

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|                  |                     | TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAACAGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCAGAACATCCTCGGGCTGA  |
| SEQ ID<br>NO:99  | Round 2<br>CD28A6-1 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCCCT<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGGCTGGAA<br>AAAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCACACATAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAAAGTTCCAAGATCTGGAACTGAGCTCATGATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCATTGTGTCTCATCAAATACGG<br>GGAGCTGTGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGTGTATTACCAAGTAAGTGGCTTGGCTCACTGGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAACAGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCAGAACATCCTCGGGCTGA |
| SEQ ID<br>NO:100 | Round 2<br>CD28A8-4 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGGCTGGAA<br>AAAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGGTGGTTCAAAG<br>AATGAGAACGGGCTTTCAGACGGGAGCACCTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCAGATAACTGACATTGGACATCCCGCCCTAATGTGAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGGCTGGATGGAAGATGGAGAACAA<br>CTAACACGGCTAACACAAACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCAGCA<br>GTGAGCTGGATTCAATGTGACAAATAACCAACAGCATTGTGTCTCATCAAATACGGGG<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGTGTATTACCAAGTAAGTGGCTTGGTGTCACTGGTAGTCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAACAGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCAGAACATCCTCGGGCTGA            |
| SEQ ID<br>NO:101 | Round 2<br>CD28A8-6 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGGCTGGAA<br>AAAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>AATGAGAACGGGCTTTCAGACGGGAGCACCTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCAGATAACTGACATTGGACATCCCGCCCTAATGTGAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGGCTGGATGGAAGATGGAGAACAA<br>CTAACACGGCTAACACAAACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCAGCA<br>GTGAGCTGGATTCAATGTGACAAATAACCAACAGCATTGTGTCTCATCAAATACGGGG<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGTGTATTACCAAGTAAGTGGCTTGGTGTCACTGGTAGTCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAACAGAATGAAGAGAC<br>GGGAACATGAAAGGCTGCCCCATCTACTTAGGCTCTGCAGAACATCCTCGGGCTGA             |
| SEQ ID<br>NO:102 | Round 2<br>CD28B2-8 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGGCTGGAA<br>AAAGTCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTATTCAAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGCCCCACACATAATGATCTTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAAAGTTCCAAGATCTGGAACTGAGCTCATGATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCATTGTGTCTCATCAAATACGG<br>GGAGCTGTGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT  |

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|               |                   | CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCGGTAGTTCTCTACTGCCTCTGGCTCTCTCAGCTCTGGTCACAGCAGACATGGTGCAGAGTGGAAAAGAACGAGAAGGAATGAAGAGACAGTGGAACTGAAAGGCTGCCCTATCTACTTAGGCTCTGCAGCAATCCTCGGCTGA   |
| SEQ ID NO:103 | Round 2 CD28B4-3  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTCAGCTCTGGTCACAGCAGACATGGTGCAGAGTGGAAAAGAACGAGACATGGTGCAGGCTGCCATCTGCCTGGAAACAAGCAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAAAGTGAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTTATTGTGATCTGGCTCTGCCTGTGGACAGTGGCACCTACACCTGTGTTATTCAAAGCCTGTTAATGAGAGCTGAGGTGTGGCTTATCAAACAGTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAGCTGACTTCCCTGTCCCTACACATGAGGCTTATCAAATGCTTGGGAAATCCATCTGCCTGGAAACAAGCAGACAGAGAAGGGAGAAAGACTTAACAGTGTACAGACCTTCACTGGCAAGAATCCAAACCAACCCCTCTGCTAATCAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCATTGGGATTCTGTGATCATTGAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAACTGAAAGTGGAAATGCAAAGTGTCTCAGTCTCCATAG  |
| SEQ ID NO:104 | Round 2 CD28B6-3  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTCAGCTCTGGTCACAGCAGACATGGTGCAGAGTGGAAAAGAACGAGACATGGTGCAGGCTGCCATCTGCCTGGAAACAAGCAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAAAGTGAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTTATTGTGATCTGGCTCTGCCTGTGGACAGTGGCACCTACACCTGTGTTATTCAAAGCCTGTTAATGAGAGCTGAGGTGTGGCTTATCAAACAGCAGACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTGAGACTTAACAGTGTACAGACCTTCACTGGCAAGAATCCAAACCAACCCCTCTGCTAATCAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCATTGGGATTCTGTGATCATTGAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAACTGAAAGTGGAAATGCAAAGTGTCTCAGTCTCCATAG  |
| SEQ ID NO:105 | Round 2 CD28B6-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTCAGCTCTGGTCACAGCAGACATGGTGCAGAGTGGAAAAGAACGAGACATGGTGCAGGCTGCCATCTGCCTGGAAACAAGCAGTGAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAAAGTGAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTTATTGTGATCTGGCTCTGCCTGTGGACAGGACCTACACCTGTGTTATTCAAAGCCTGTTAATGAGAGCTGAGGTGTGGCTTATCAAACAGCAGACACTGTCCCAAGATCCTGAAACCAAGCTCTACAGCGTCACTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAGATGCTCCGCTCTGGAGGTTTCCAGAGCCCTGCCCTGGATGGAAGATGGAGAAAGACTAAACGCCGTCAACACGACGGTGACCGAGATTGGACACGGAGCTACAGCGTCAAGTGAACTGGATTCAATGCGACAAATAACCACAGCAGTGTGTCTCATCAAATACGGGGAGCTGTGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGATCAGCTTCCATTCTGGGTCAATTGTCCAGTAAGTGGTCTTGGTGCCTACTGCGGTAGTTCTACTGCCTGGCTGAGACATGTTGCGAGGTGA |
| SEQ ID NO:106 | Round 2 CD28B8-5* | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTCAGCTCTGGTCACAGCAGACATGGTGCAGAGTGGAAAAGAACGAGACATGGTGCAGGCTGCCATCTGCCTGGAAACAAGCAGTGAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAAAGTGAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTTATTGTGATCTGGCTCTGCCTGTGGACAGTGGCACCTACACCTGTGTTATTCAAAGCCTGTTAATGAGAGCTGAGGTGTGGCTTATCAAACAGCAGACACTGTCCCAAGATCCTGGAACGTGAGCTCTACATGATTGAGCTGAACTGGATTCAATGTGACAAATAACCACAGCAGTGTGTCTCATCAAATACGGGGAGCTGTGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGATCAGCTTCCATTCTGGGTCAATTGTCCAGTAAGTGGTCTTGGTGCCTACTGCGGTAGTTCTACTGCCTGGCTGAGACATGTTGCGAGGTGA  |

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|                  |                      | CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTGGTGCCTACTGCGGTAGTTCTCTACTGCCTCTGGCTCTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCACAATCCTCGGGCTGA  |
| SEQ ID<br>NO:107 | Round 2<br>CD28C11-5 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCACATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGACAAACCAAGCAGGAGCCTCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTGGTGCCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCACAATCCTCGGGCTGA    |
| SEQ ID<br>NO:108 | Round 2<br>CD28C6-1  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCCTGGAGATTTCAGAGGCCCTGCCCTGGATGGAAGATGGAGAA<br>GAACAAACGCCGTCAACACGACGGTGACCAATAACCAACAGCACATCGTGTCTCATCAAATACGG<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCACATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGACAAACCAAGCAGGAGCCTCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTGGTGCCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCACAATCCTCGGGCTGA |
| SEQ ID<br>NO:109 | Round 2<br>CD28C7-3  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCCTGGAGATTTCAGAGGCCCTGCCCTGGATGGAAGATGGAGAA<br>GAACAAACGCCGTCAACACGACGGTGACCAATAACCAACAGCACATCGTGTCTCATCAAATACGG<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCACATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGACAAACCAAGCAGGAGCCTCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTGGTGCCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCACAATCCTCGGGCTGA |
| SEQ ID<br>NO:110 | Round 2<br>CD28C8-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAAATAACCAACAGCACATCGTGTCTCATCAAATACGG  |

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|               |                   | GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGAT CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTC TCTACTGCCCTGGCCTGCGACATGTTGCGAGGTTGAAAAGAACAAAGAAGGAATGAAGAGAC AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG  |
| SEQ ID NO:111 | Round 2 CD28C9-5* | ATGGGTACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCCTGGCTCTCTC AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCCTGCCTGGAA AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTCGGACAGTGGCACCTACACCTGTGTTATTAGAAG CCTGTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTCTGTGAGGTTAATGATCAGAG CTGACTTCCCTGTCCTACCATAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCTTATTGAG AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGAACAA GAATTAAATGCTACCAACACAGTTCCAAGATCCTGGAACGTGAGCTCTACATGATTA GCAGTGAACGGATTCAATGTGACAAAATACACAGCATCGTGTCTCATCAAATACGG GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGAT CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTC TCTACTGCCCTGGCCTGCGACATGTTGCGAGGTTGAAAAGAACAAAGAAGGAATGAAGAGAC AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG |
| SEQ ID NO:112 | Round 2 CD28C2-4  | ATGGGCCACACGCTGAGGCCGGAACTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC TGCTCTGGCGCTGGCGGGCTCCACTTCTCAGGTATCAGCCAGGTACCAAGTCGGT GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTCTATCGATGAACTGGCGAGAAATG CGCATATACTGGCAGAACAGGACCAACAGATGGTGTGAGCATTCTGGCAAGTGGAGG TGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCGTATTGTGAT CCTGGCCTGCGCCTGTCGGACAGTGGCACCTACACCTGTGTTATTAGCAGCTGTTTG AAAGGGGCTTATAAAACGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAGCTGACTTCC CTGTCCCTACCATAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCTAATTGCTC AACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGAACAAAT GCTACCAACACAAACACTGTCCCAGATCCTGAAACCAAGCTCTACATGATTAGCAGTGAAC TGGATTTCACATGACAAGCAATCACAGCTTCTGTGCTTGTCAAGTATGGAGACTTAAC AGTGTACAGACCTCTACTGGCAAGAACCAACCCCTCTGCTAATCAGCACCTG ACCTGGACCATTATTATCCAGTCTCAGCATTGGATTCTGTGATCATTGCACTTAC TAACATGCGTGCAGGATGCTGAATACCGCAGACAGAGAACAGGAGAATGAAGTGGAA ATGCAAAGTTGCTCTCAGTCTCATAG   |
| SEQ ID NO:113 | Round 2 CD28D2-3  | ATGGGTACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCCTGGCTCTCTC AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAAACACATCCACTGAAGAACTG ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCCTGCCTGGAA AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG TATTGTGATCCAGGCTCTGGCCTGTCGGACAGTGGCACCTACACCTGTGTTATTGAGAAG CCTGTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG CTGACTTCCCTGTCCCTACTGATCTGGAAATCCATCTCCTAATATCAGAAGGCTAATTG CTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGAACATTAA AATGCTACCAACACAAACAGTTCCAAGATCCTGGAACGTGAGCTCTACATGATTAGCAGTG AACTGGATTTCACATGACAATAACACACAGCATCGTGTCTCATCAAATACGGGAGCT GTGGTGTACAGATCTCCCTGGAGCAAACCAAGCAGGAGCCTCCATTGATCAGCTT CCATTCTGGGTCAATTATCCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTCTACT GCCTGGCCTGCGACATGTTGCGAGGTTGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGG AACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG           |
| SEQ ID NO:114 | Round 2 CD28D2-9  | ATGGGTACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCCTGGCTCTCTC AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAAACACATCCACTGAAGAACTG ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCCTGCCTGGAA AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG TATTGTGATCCTGGCTCTGGCCTGTCGGACAGTGGCACCTACACCTGTGTTATTGAGAAG CCTGTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG CTGACTTCCCTGTCCCTACCATAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCT AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGAACAA GAATTAAATGCTACCAACACAACTGTCCCAGATCCTGAAACCGAGCTCTACATGATTA   |

10032214 - 1129001

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|               |                   | GCAGTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGCACAGATCTCCCTGGAGAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGGTATTATCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACACAAGAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGCCCTATCTACTTAGGCTCTGCAGAACCTCGGGCTGA  |
| SEQ ID NO:115 | Round 2 CD28D8-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGGCCCATGCCCTGGCTCTC<br>AGCTTGGTGCCTACTGGCTTTTACTCTGGTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGCGTGGTTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGAGCTTGGAGGTTAATGATCAGAG<br>CTGACTCCCTGTCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGATTCCAGAGCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAACCGCGTCAACACGACGGTTGACCGAGATTGGACACGGAGCTACAGCGTCAGCA<br>GTGAACGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGA<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAAACCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTATTATCCTAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTCTCT<br>ACTGCCCTGGCCTGCAGACATGTTGCAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGT<br>GGGAACGTGAAAGGCTGCCCTATCTACTTAGGCTCTGCAGAACCTCGGGCTGA |
| SEQ ID NO:116 | Round 2 CD28D11-1 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGGCCCATGCCCTGGCTCTC<br>AGCTTGGTGCCTACTGGCTTTTACTCTGGTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTCCCTGTCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGATTCCAGAGCTCGCCTGCCTGGATGGAAGATGGAGAA<br>GAACTAACCGCGTCAACACGACGGTTTGGACACGGAGCTACAGCGTCAGCAGTGAAC<br>TGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGAGCTGTC<br>GGTGTACAGATCTCCCTGGAGCAAAACCAAGCAGGAGCCTCCATTGATCAGCTCCA<br>TTCTGGGTATTATCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTCTACTGCC<br>TGGCCTGCAGACATGTTGCAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGCCCTATCTACTTAGGCTCTGCAGAACCTCGGGCTGA             |
| SEQ ID NO:117 | Round 2 CD28D12-5 | ATGGGTACACAAATGGAGTGGGATCACTACCACCCAAGGCCCATGCCCTGGCTCTC<br>AGCTTGGTGCCTACTGGCTTTTACTCTGGTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTCCCTGTCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGATTCCAGAGCTCGCCTGCCTGGATGGAAGATGGAGAA<br>GAACTAACCGCGTCAACACGACGGTTTGGACACGGAGCTACAGCGTCAGCAGTGAAC<br>TGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGAGCTGTC<br>GGTGTACAGATCTCCCTGGAGCAAAACCAAGCAGGAGCCTCCATTGATCAGCTCCA<br>TTCTGGGTATTATCCAGTAAGTGGTCTTGGTGCCTACTGCCGTAGTCTACTGCC<br>TGGCCTGCAGACATGTTGCAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGCCCTATCTACTTAGGCTCTGCAGAACCTCGGGCTGA             |
| SEQ ID NO:118 | Round 2 CD28E10-6 | ATGGGTACACAAATGGAGTGGGATCACTACCACCCAAGGCCCATGCCCTGGCTCTC<br>AGCTTGGTGCCTACTGGCTTTTACTCTGGTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTCCCTGTCCTAGCATAATGTGTTGGACATCCGCCCTAATGTGAAAAGGAT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTAGAAAATGGAGAA  |

J0032214 - J222004

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|                  |                           | GAATTAATGCTACCAACACAACTGTCCAAGATCCTGAAACTGAGCTCATGATTA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCAGTCGTCTCATCAAATACGG<br>GGAGCTGCGGTACAGATCTCCCTGGAGCAAACCCAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGTCATTATCCCAGTAAGTGGTGCTTGGTGCTACTGCCGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTTGCAGCAATCCTCGGCTGA  |
| SEQ ID<br>NO:119 | Round 2<br>CD28F7-2       | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACTGTCCAAGATCCTGAAACCAAGCTCATGATTA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCAGTCGTCTCATCAAATACGG<br>GGAGCTGCGGTACAGATCTCCCTGGAGCAAACCCAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGTCATTATCCCAGTAAGTGGTGCTTGGTGCTACTGCAGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTTGCAGCAATCCTCGGCTGA |
| SEQ ID<br>NO:120 | Round 2<br>CD28F8-4       | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTCTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTGGAGATTTCAGAGCCTGCCCTGGATGGAAGATGGAGAA<br>GAACAAACGCCCTAACACAGCGGTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCAGTCGTCTCATCAAATACGG<br>GGAGCTGCGGTACAGATCTCCCTGGAGCAAACCCAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGTCATTATCCCAGTAAGTGGTGCTTGGTGCTACTGCCGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTTGCAGCAATCCTCGGCTGA  |
| SEQ ID<br>NO:121 | Round 2<br>CD28F10-2      | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTCTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTGGAGATTTCAGAGCCTGCCCTGGATGGAAGATGGAGAA<br>GAACAAACGCCCTAACACAGCGGTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCAGTCGTCTCATCAAATACGG<br>GGAGCTGCGGTACAGATCTCCCTGGAGCAAACCCAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGTCATTATCCCAGTAAGTGGTGCTTGGTGCTACTGCCGTAGTT<br>TCTACTGCCCTGGCCTGCAGACATGTTGCAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTTGCAGCAATCCTCGGCTGA   |
| SEQ ID<br>NO:122 | Round 2<br>CD28F12-<br>5* | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCGCCCTAATGTGAAAAGGAT   |

10032214 - 122001

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|                  |                     | AAGATGCTCCGCCTCTGGAGATTTCCAGAGCCTGCCCTGGATGGAAGATGGGAA<br>GAACTAACGCCGTCAACACGACGGTGACCAGGATTGGACACGGAGCTCACAGCGTCA<br>GCAGTGAACGGATTCAATGTACAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGCGGTGCTTGGTGCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTAG  |
| SEQ ID<br>NO:123 | Round 2<br>CD28G2-8 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGCGCTGAGTACAAGAACCGCACCTCCCGACATCATTAACAAACCTCTC<br>CCTTATGATCTGGCACTGCGCTGCGACAGGGCACCTACACCTGCGTGGTCAAG<br>AATGAGAACGGGTCTTCAGACGGGAGCACCTGACACTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCTAGCATAACTGACATTGGACATCCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCAGCA<br>GTGAACGGATTCAATGTGACAATAACCACAGCATTGCGTCTCATCAAATACGGGAA<br>GCTGTCGGTGTCAAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCCAGTAAGCGGTGCTTGGTGCTACTGCGGTAGTTCTC<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGT<br>GGGAACGGTGAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGA     |
| SEQ ID<br>NO:124 | Round 2<br>CD28G1-5 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGCGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCTGGCTCTGCGCTGCGACAGGGCACCTACACCTGTTATTCAAG<br>CCTGTTTGAAAGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGGAGAAGAA<br>GAACAAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCATTGCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCAGAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGCGGTGCTTGGTGCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGA |
| SEQ ID<br>NO:125 | Round 2<br>CD28G1-9 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGCGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCTGGCTCTGCGCTGCGACAGGGCACCTACACCTGTTATTCAAG<br>CCTGTTTGAAAGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGGAGAAGAA<br>GAACAAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCATTGCGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCAGAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTATCCCAGTAAGCGGTGCTTGGTGCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGA |
| SEQ ID<br>NO:126 | Round 2<br>CD28H4-3 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTGGTGCTCACTGATCTTTTACTTCTGTTAGGCATACCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGCGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCG<br>TATTGTGATCTGGCTCTGCGCTGCGACAGGGCACCTACACCTGTTATTCAAG<br>CCTGTTTGAAAGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTAAATGATCAGAG  |

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|                  |                      | CTGACTTCCCTGCCCTACCATAAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACTGGATTCAATGTGACAAATAACCACAGCATTGTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCAAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:127 | Round 2<br>CD28H11-3 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGGCCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTCAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTAAAGGGCTTATAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACCTACATGGAAATCCATCCTAATATCAGAAGGCT<br>AATTGCTCAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAACATTAAAT<br>GCTACCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTAGCAGTGAAC<br>TGGATTCAATGTGACAAATAACCACAGCATGTCATCAAATACGGGAGCTGTC<br>GGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTTCA<br>TTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGGTAGTTCTACTGCC<br>TGGCCTGCAGACATGTTGCAAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA             |
| SEQ ID<br>NO:129 | Round 2<br>CD28E2-4  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGGCCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTCAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCACTGCGCCTGCGACAAGGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAGGGCTTATAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACCTACATGGAAATCCATCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACTGGATTCAATGTGACAAATAACCACAGCATGTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTACTGCGGTAGTT<br>TCTACTGCCTGGCCTGCAGACATGTTGCAAGGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:130 | Round 2<br>CD28B4-5a | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGGCCCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTCTGTTCAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGTGTTATTAGAAG  |

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|                  |                      | CCTGTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCTACCATAAATGATCTTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTCCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAACCTGGATTCAATGTGACAAATAACCACAGCAGTCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGGTATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTAG   |
| SEQ ID<br>NO:131 | Round 2<br>CD28A2-5  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTTGGTCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGATCTGGCTCTGGCCTGCGGACAGTGGCACCTACACCTGGTGTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCAGCATAACTGACATTGGACATCCGCCCCTAATGTGAAAGGAT<br>AAGATGCTCCGCTCTGGAGGTTTCCAGAGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACCTGGATTCAACATGACAAGCAATCACAGCTTGTGTCTTGTCAAGTATGG<br>AGACTAACAGTGTACAGACCTACTGGCAAGAATCCAACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCAGCATTGGGATTCTGTGATCATTG<br>CAGTTACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGGAAATGCAAAGTGTCTCAGTCTCATAGGTACCAAGCTTAAGTTAACCGC           |
| SEQ ID<br>NO:132 | Round 2<br>CD28B4-5* | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTTGGTCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGATCTGGCTCTGGCCTGCGCCTGCGACAGTGGCACCTACACCTGGTGTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCAGCATAACTGACATTGGACATCCGCCCCTAATGTGAAAGGAT<br>AAGATGCTCCGCTCTGGAGGTTTCCAGAGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCA<br>GCAGTGAACCTGGATTCAATGTGACAATAACCACAGCAGTCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT<br>CAGCTTCATTCTGGGTATTATCCCAGTAAGTGGTCTTGGTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGA |
| SEQ ID<br>NO:133 | Round 2<br>CD28D5-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTTGGTCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGATCTGGCTCTGGCCTGCGCCTGCGACAGTGGCACCTACACCTGGTGTATTAGAAG<br>CCTGTTTGAAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCAGCATAATGATCTTGGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACACTGTCCTCAAGACATCTGAAACCAAGCTACATGATTA<br>GCAGTGAACCTGGATTCAACATGACAAGCAATCACAGCTTGTGTCTTGTCAAGTATGG<br>AGACTAACAGTGTACAGTCCTACTGGCAAGAATCCAACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCAGCATTGGGATTCTGTGATCATTG<br>CAGTTACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTGTCTCAGTCTCATGA                     |
| SEQ ID<br>NO:134 | Round 2<br>CD28D10-4 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTC<br>AGCTCTTGGTCTCACTGGCTTTTACTTCTGTTAGGCATCACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTCTGGCCATCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG   |

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|                  |                      | TATTGTGATCCTGGCTCTGCGCCTGTCGGACAAGGGACCTACACCTGCGTGGTCAGAAG<br>AATGAGAACGGGCTTTAGCACAGCAGGACACCTGACACTGTCCATCAGAGCTG<br>ACTTCCTGCCCCTAGCATAACTGACATTGGACATCCCCTCGCTGACACTGTCCATCAGAGCTG<br>ATGCTCCGCCCTGGAGGTTTCCAGAGCCTGCCCTGGATGGAAGATGGAGAAGAA<br>CTAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCAGCA<br>GTGAACGGATTCAATGTGACAAATAACCACAGCAGTGTGTCTCATCAAATACGGGG<br>GCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCTCCATTGATCAG<br>CTTCCATTCTGGGTCAATTACCCAGTAAGTGGTCTTGAGGCTACTGCGGTAGTTCTCT<br>ACTGCCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGT<br>GGGAACGTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG  |
| SEQ ID<br>NO:135 | Round 2<br>CD28E2-5* | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCC<br>TATTGTGATCCTGGCTCTGGCCCTGGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACACTGCTTCAAGATCCTGAAACCAAGCTTACATGATTA<br>GCAGTGAACTGGATTCAATGTGACAAATAACCGCAGCAGTGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCAGAGATCTCCCTGGAGCAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTACCCAGTAAGTGGTCTTGAGGCTACTGGGTAGTT<br>TCTACTGCGCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA     |
| SEQ ID<br>NO:136 | Round 2<br>CD28E5-2  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCC<br>TATTGTGATCCTGGCTCTGGCCCTGGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACACTGCTTCAAGATCCTGAAACCAAGCTTACATGATTA<br>GCAGTGAACTGGATTCAATGTGACAAATAACCGCAGCAGTGTGTCTCATCAAATACGG<br>GGAGCTGCGGTGTCAGAGATCTCCCTGGAGCAACCCAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTCAATTACCCAGTAAGTGGTCTTGAGGCTACTGGGTAGTT<br>TCTACTGCGCTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:137 | Round 2<br>CD28E8-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCC<br>TATTGTGATCCTGGCTCTGGCCCTGGACAGTGGCACCTACACCTGTGTTATTAGAAG<br>CCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAGTTCCCAAGATCCTGAAACCAAGCTTACATGATTA<br>GCAGTGAACTGGATTCAACACGACAAGCAATCACAGCTTCTGTGTCTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTCTACTGGCAAGAATCCAACACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTACCCAGTCTCAGCATTGGGATTCTGTGATCATTG<br>CAGTTATAACTAACATGCGCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTGTCTCTAGTCTCCATGA               |
| SEQ ID<br>NO:138 | Round 2<br>CD28E9-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAAGCGCCATGCCTCTGGCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATCACCACAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA   |

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|                  |                      | AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAAGGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGATTGAAAGGGGCTTATAAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTGGCTTCCAAGATCCTGAAACCAAGCTACATGATTA<br>GCAGTGAACGGATTCAATGACAAGCAATCACAGCTTCTGTGTCAGTGT<br>AGACTTAACAGTGTACAGACCTACTGGCAAGAACCAACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGGATTCTGTGATCATTG<br>CAGTTACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTGTCTCTAGTCTCATGA  |
| SEQ ID<br>NO:139 | Round 2<br>CD28F3-1  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGTCACTGGCTTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>AAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGCGTGGTCAGAAG<br>AATGAGAACGGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCTAGGATAACTGACATTGGACATCCGCCCCCTAATGTGAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTCCAGAGCCTCGCCCTGCCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAACGGATTCAATGTGACAATAACCACAGCATCGTGTCTCATCAAATACGGGAA<br>GCTGTCGGTGTACAGATCTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTCTCT<br>ACTGCGCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGT<br>GGGAACGGATTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG      |
| SEQ ID<br>NO:140 | Round 2<br>CD28F3-5  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGTCACTGGCTTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>AAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGCGTGGTTATTCAGAAG<br>CCTGATTGAAAGGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACCATAAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTGGCTTCCAAGATCCTGAAACCAAGCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG |
| SEQ ID<br>NO:141 | Round 2<br>CD28F3-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGTCACTGGCTTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>AAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGCGACAGTGGCACCTACACCTGCGTGGTTATTCAGAAG<br>CCTGATTGAAAGGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACCATAAATGATCTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTGGCTTCCAAGATCCTGAAACCAAGCTACATGATTA<br>GCAGTGAACGGATTCAATGTGACAATAACCACAGCATCGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTGGAGCAAACCCAAAGCAGGAGCCTCCATTGAT<br>CAGCTCCATTCTGGGTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGAC<br>AGTGGAACTGAAAGGCTGCCCCATCTACTTAGGCTCTGCGCAATCCTCGGCTGAG |
| SEQ ID<br>NO:142 | Round 2<br>CD28F11-8 | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGTCACTGGCTTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>AAAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG   |

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|                  |                               | ACAAGCCTTCGGATCTTGGCAAAAGGATAGTAAAATGGTGTGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCGCTGCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGTTTGAAAGGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGCCCACCATAAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTGAAATGGAGA<br>GAATTAAATGCTACCAACACAACACTGTCCAAGATCCTGAAACCAAGCTACATGATTA<br>GCAGTGAACGGATTCAACATGACAAGCAATTGTGTTGCAAGTATGGAGACTAAC<br>AGTGTACAGACCTCTACTGGCAAGAACCAACCCCTCTGCTAATCAGCACCTG<br>ACCTGGACCATTATTATCCAGTCTCAGCATTGGGATTCTGTGATCATGCACTTAC<br>TAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGG<br>AATGCAAAGTTGCTCTCAGTCTCCATGA  |
| SEQ ID<br>NO:143 | Round 2<br>CTLA4BP<br>5x9-d10 | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTC<br>AGTTCTGGTGCTGGCTAGTCTTCTCATTTCTGTTAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCTGTGGCTCAATGTTCTGTTAGGTGAAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGGAGAAAATGGTGTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCCTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGATGTTCAAGCGAGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTGGAGGTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAAACAGTTCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGACCT<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAAGGGAGAATGAGAGGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:144 | Round 2<br>CTLA4BP<br>5x6-f6  | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGCTGGCTAGTCTTCCACTTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTCTGTTAGGTGAAAGAGCTGGCACAA<br>ACTCCCACATCTACTGGAAAAGGGAGAAAATGGTGTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCCTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGACGTTCAAGCGAGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTGGAGGTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAAACAGTTCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGACCT<br>ACCGCTTGCCCCAAGATGCAGAGAGAGAAGGGAGAATGAGAGGCTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA |
| SEQ ID<br>NO:145 | Round 2<br>CTLA4BP<br>5c5-h12 | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTC<br>AGCTCTGGTGCTGGCTAGTCTTCCACTTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTCTGTTAGGTGAAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGGAGAAAATGGTGTGACTATGATGTCCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCCTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGATGTTCAAGCGGGAACACCTGGCTGAAGTGTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTGGAGGTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAAACAGTTCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCGATCGCAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGACCT<br>ACTGTTTGCCCCAAGATGCAGAGAGAGAAGGGAGAATGAGAGGCTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA   |
| SEQ ID<br>NO:146 | Round 2<br>CTLA4BP            | ATGAGCCACACACAGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAATTCTTC<br>AGCTCTGGTGCTGGCTAGTCTTCTCATTTCTGTTAGGTGTTATCCACGTGACCAAGGA   |

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|               | 5x5-c10                      | AGTGAAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCACATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCACATCTGACGAGGGCACATACGAGTGTGTTCTGGAGTATGAA<br>AAAGACGCTTCAGCAGGGAGCACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCGCCTCGCTGGATGGAAGATGGAGAAGAACTAAAT<br>GCCATCACACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAC<br>TGGATTCAATATGACAGCCAATCGCAGTTGTGTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTCACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGTT<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAGGAATTGAGAGATTGAGAAGGAAAGTGT<br>ATGCCCTGTATAG  |
| SEQ ID NO:147 | Round 2<br>CTLA4BP<br>5x3-e8 | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATAACCTCAAGTTCTTTC<br>AGCTCTTGGCTGGCTGGCTTTCTCATCTGTTCACTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCACATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGGCCCATCCGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCAGGGAACACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCGCCTCGCTGGATGGAAGATGGAGAAGAACTAAAT<br>GCCATCACACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAC<br>TGGATTCAATATGACAGCCAATCGCAGTTGTGTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTCACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGTT<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAGGAATTGAGAGATTGAGAAGGAAAGTGT<br>ATGCCCTGTATAG |
| SEQ ID NO:148 | Round 2<br>CTLA4BP<br>5x3-c4 | ATGAGCCACATACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAATTCTTTC<br>AGCTCTTGGCTGGCTGGCTTTCTCATCTGTTCACTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCACATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGGCCCATCCGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCAGGGAACACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCGCCTCGCTGGATGGAAGATGGAGAAGAACTAAAT<br>GCCATCACACACAGTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAC<br>TGGATTCAATATGACAGCCAATCGCAGTTGTGTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTCACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGTT<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAGGAATTGAGAGATTGAGAAGGAAAGTGT<br>ATGCCCTGTATAG |
| SEQ ID NO:149 | Round 2<br>CTLA4BP<br>5x3-c3 | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTC<br>AGCTCTTGGCTGGCTAGCTTTCTCACTCTGTTAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCTGTGGCCCATGTTCCGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCACATCTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCAGAGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCGCCTCGCTGGATGGAAGATGGAGAAGAACTAAAT<br>GCCATCACACACAGTTCCAAGATCCTGGAACTGAGCTCTATGTTAGCAGCAAC<br>TGGATTCAATATGACAGCCAACACAGCTCATGTGTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTCACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGTT<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAGGAATTGAGAGATTGAGAAGGAAAGTGT<br>ATGCCCTGTATAG          |
| SEQ ID        | Round 2                      | ATGAGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTTC   |

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| NO:150           | CTLA4BP<br>5x2-h11           | AGCTCTTGGTGCTGGCTTGTCTTCATTTCTGTTCAGGTGTTATCCACGTGACCAAGAA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGGAAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTGCAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGGCCATCTGACGAGGGCACATACGAGTGTGCTGTTCTGAAGTATGAA<br>AAAGATGCCTTCAGCAGGGAAACACCTGGCTGAAGTGATGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGGCCTCACCTCTGGTGGAAATGGGAAAGAATTAAAT<br>GCCATCAACACAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTCACTGTTGATATGCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGA   |
| SEQ ID<br>NO:151 | Round 2<br>CTLA4BP<br>5x2-d7 | ATGGGCCTACACACGGAGGCAGGGAAACATCACCATCGAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTTGGTGCTGGCTGGCTTTCTCCTACTCTGTTCAGGTGTTATCCACATGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGGAAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTGACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCCTTCAGCAGGGAAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGGCCTCACCTCTGGTGGAAATGGGAAAGAATTAAAT<br>GCCATCAACACAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTTCAGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGA                         |
| SEQ ID<br>NO:152 | Round 2<br>CTLA4BP<br>5x2-b7 | ATGAGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAATTCTTC<br>GGCTCTTGGTGCTGGCTAGTCTTCTCATTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGGAAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTGACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCAGGGAAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGGCCTCACCTCTGGTGGAAATGGGAAAGAATTAAAT<br>GCCATCAACACAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTTCAGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGA                            |
| SEQ ID<br>NO:153 | Round 2<br>CTLA4BP<br>5x2-b1 | ATGAGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTC<br>AGCTCTTGGTGCTGGCTAGTCTTCTCATTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACCGCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGGAAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTGACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCAGGGAAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCCGGAGGTTTCCAGGCCTCACCTCTGGTGGAAATGGGAAAGAATTAAAT<br>GCCATCAACACAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTTCAGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>CCATCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAGAAAGGAAATGAGAGACTGAGAAGGAAAGTGT<br>ACGCCCTGTATGGGTACCAAGCTTAAGTTAACCGCNATCAGCC |

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| SEQ ID<br>NO:154 | Round 2<br>CTLA4BP<br>5x1-f1 | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTGCTGGCTAGTCTTCTCATTTCTGTTCAGGTGTTATCCACGTGACTAAGGA AGTGAAGAAGTGGCAACGCTGTCCTGTTGTCACAATGTTCTGTTGAAGAGCTGGACCAA ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA ATATATGGCCCAGGCACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCACATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA AAAGACGCTTCAGCAGGGAAACACCTGGCTGAAGTGTGTTATCCGTCAAAGCTGACTTCC CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGGAAGAATTAAAT GCCATCAACACAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGCTTAGCAGCAAAC TGGATTCAATATGACACCAACCACAGCTCATGTGTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGGATATGCTGCCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT ACACCCCTGTATGA      |
| SEQ ID<br>NO:156 | Round 2<br>CTLA4BP<br>2x4-g9 | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTGCTGGCTTGTCTTCTCATTTCTGTTCAGGTGTTATCCACGTGACCAAGGA AGTGAAGAGGTGGCAACGCTGTCCTGTTGTCACAATGTTCTGTTGAAGAGCTGGACCAA ACTCGCATCTACTGGAAAAGGAGATAAGAAAATGGTGTGACTATGATGTCTGGGACATGA ATATATGGCCCAGGCACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCACATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA AAAGATGCTTCAGCAGGGAAACACCTGGCTGAAGTGTGTTATCCGTCAAAGCTGACTTCC CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCGCTCGCTGGATGGAAGATGGAGAAGAACTAAAT GCCATCAGCACAACAGTTCCAAGATCCTGAAACTGAGCTCTGTACTGTTAGCAGCAAAC TGGATTCAATATGACACCAACCACAGCTCATGTGTCATCAGGTATGGACATTAAAG AGTGAATCAGACCTCACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCCTGGGCCATTACCTTAATCTCAGTAAAGGGAATTGGATATGCTGCCTGACCT ACTGCTTGCCCCAAGAGGCAGAGAGAGAAGAGCAATGGGAGACTGAGAAGGGAAAGTGT ACACCCCTGTATGA |
| SEQ ID<br>NO:157 | Round 2<br>CTLA4BP<br>2x4-a6 | ATGGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTGCTGGCTTGTCTTCTCATTTCTGTTCAGGTGTTATCCACGTGACTAAGGA AGTGAAGAAGTGGCAACGCTGTCCTGTTGTCACAATGTTCTGTTGAAGAGCTGGACCAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA ATATATGGCCCAGGCACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT GATTCTGGCTCTGCGCCCACATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA AAAGATGCTTCAGCAGGGAAACACCTGGCTGAAGTGTGTTATCCGTCAAAGCTGACTTCC CTACACCTAGTATACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCGCTCGCTGGATGGAAGATGGAGAAGAATTAAAT GCCATCAGCACAACAGTTCCAAGATCCTGAAACTGAGCTCTATGCTGNTAGCAGCAAAC TGGATTCAATATGACACCAACCACAGCTCATGTGTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGGATATGCTGCCTGACCT ACTGCTTGCCCCAAGGTGCAGAGAGAGAAGAGCAATGGGAGACTGAGAAGGGAAAGTGT ACACCCCTGTATGA   |

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|                  |                               | ATGCCCTGTATGA   |
| SEQ ID<br>NO:158 | Round 2<br>CTLA4BP<br>2x2-f3  | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTCTGGCTTGTCTTCTCATTTCTGTTCAGGTGTTATCTACGTGACCAAGGA AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGATTATGATGTCTGGGGACATGA ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATAGGAGTGTGTTCTGAAGTATGAA AAAGATGCTTCAGCGGGAACACCTGGCTGAAGTGCCTACGTTACAGTCAAAGCTGACTTCC CTACACCTAGTATATCTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAC TGGATTTCATATGACAACCAACCACAGCTCATGTGTCATCAAGTATGGACATTAAAG AGCGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT ACGCCCTGTATGA |
| SEQ ID<br>NO:159 | Round 2<br>CTLA4BP<br>2x2-f12 | ATGGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTCTGGCTGGCTTCTCATTTCTGTTCAGGTGTTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGGGTGTTCTGGAGTATGAA AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGCCTATCGTCAAAGCTGACTTCC CTACACCTAGTATATCTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACTGTTAGCAGCAAC TGGATTTCATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT ACGCCCTGTATGA              |
| SEQ ID<br>NO:160 | Round 2<br>CTLA4BP<br>2x1-g8  | ATGGGCTACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCATAACCTCAATTCTTC AGCTCTTGGTCTGGCTAGTCTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGCCTATCGTCAAAGCTGACTTCC CTACACCTAGTATAACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTACTGTTAGCAGCAAC TGGATTTCATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGACTGAGAAGGGAAAGTGT ACGCCCTGTATGA            |
| SEQ ID<br>NO:161 | Round 2<br>CTLA4BP<br>2x1-f10 | ATGGGCTACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC AGCTCTTGGTCTGGCTGGCTTCTCATTTCTGTTCAGGTGTTATCCACGTGACCAAGGA AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCCATTGT GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA AAAGATGCTTCAGCGGGAACACCTGGCTGAAGTGCATGTTATCGTCAAAGCTGACTTCC CTACACCTAGTATAACTGACTTGAATTCCACCTCTAACATTAGAAGGATAATTGCTC AACCTCTGGAGGTTTCCAGAGCCTCGCCTGGATGGAAGATGGAGAAGAATTAAAT GCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTATGCTGTTAGCAGCAAC TGGATTTCATATGACAACCAACACAGCTCATGTGTCATCAAGTATGGACATTAAAG AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCT  |

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|                  |                               | ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA  |
| SEQ ID<br>NO:162 | Round 2<br>CTLA4BP<br>2x1-c9  | ATGAGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTGGCTTTCTCACTTCTGTTCAGGGTGTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGCTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGGGAAACACCTGGCTGAAGTGTGATGTTATCCGTCAAAGCTGACTTC<br>CTACACCTAGTATAACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTACTGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCAT CCTGGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA |
| SEQ ID<br>NO:163 | Round 2<br>CTLA4BP<br>2x1-h12 | ATGGGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTGGCTTTCTCACTTCTGTTCAGGGTGTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGATGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGTGACGTATCAGTCAAAGCTGACTTC<br>CTACACCTAGTATACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTACTGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCAT CCTAGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCGAGATGCAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA     |
| SEQ ID<br>NO:164 | Round 2<br>CTLA4BP<br>2x1-e2  | ATGGGCTACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTTGCTTTCTCATTCTGTTCAGGGTGTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCTGTGGTCACAATGTTCTGATGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGTGACGTATCAGTCAAAGCTGACTTC<br>CTACACCTAGTATACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTACTGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCAT CCTAGGCCATTACCTTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCT<br>ACTGCTTGCCCCGAGATGCAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACACCTGTATGA       |
| SEQ ID<br>NO:165 | Round 2<br>CTLA4BP<br>2x1-c4  | ATGGGCTACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTGGTGTGGCTGGCTTTCTCATCTCTGTTCAGGGTGTATCCACGTGACTAAGGA<br>AGTGAAGAAGTGGCAACGCTGCCCTGTGGTCACAATGTTCTGATGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGTGATGTTATCCGTCAAAGCTGACTTC<br>CTACACCTAGTATAACTGACTTGAATTCACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGGAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCATATGACAACCAACCACAACTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC   |

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|                  |                               | CCATCCTGGGCCATTACCTAATCTAGTAAATGGAATTTTGATATGCTGCCGTACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:166 | Round 2<br>CTLA4BP<br>2x1-b12 | ATGGGCCACACACGGAGGCAGGGATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTTGGTGCTGGCTGGCTTTCTCATCTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA<br>AAAGATGCTTCAGCAGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGGAAAGAATTAAAT<br>GCCATCAACACAACAGCTCCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGGACATTTCCTGATAACCTACTC<br>CCATCCTGGGCCATTACCTTAATCTAGTAAATGGAATTTCGTGATATGCTGCCGTACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:167 | Round 2<br>CTLA4BP<br>2x2-f1  | ATGGGCCACACACGGAGGCAGGGATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTTGGGCCCTGGCTTGTCTTTCTCATTTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACACTGTCCGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA<br>AAAGATGCTTCAGCGGAAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGCTCCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGGACATTTCCTAATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTAGTAAATGGAATTTCGTGATATGCTGCCGTACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:168 | Round 2<br>CTLA4BP<br>5x4-h1  | ATGAGGCCACACACGGAGGCAGGGATATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTTGGTGCTGGCTTGCTTTCTCATTTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTGCTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA<br>AAAGATGCTTCAGCGGAAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGCTCCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTCAACTGGAATACACCCAAAGCAAGGACATTTCCTAATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTAGTAAATGGAATTTCGTGATATGCTGCCGTACCT<br>ACTGCTTGCCCCAAGATGCAGAGAGAAGGAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACACCCTGTATGA   |
| SEQ ID<br>NO:169 | Round 2<br>CTLA4BP<br>5x4-a1  | ATGGGCCACACACGGAGGCAGGGACATCACCATCCAAGTGTCCATAACCTCAAGTTCTTC<br>AGCTCTTGGTGCTGGCTGGCTTTCTCATTTCTGTTAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTGCTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGA<br>ATATATGGCCCAGCACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAAGTATGAA<br>AAAGACGCTTCAGCGGAAACACCTGGCTGAAGTGACGTTATCAGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTGAATTCCAACCTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCCAAGATCCTGAACTGAGCTCTACTGTTAGCAGCAAC<br>TGGATTCAATATGACAACCAATCGCAGTTGTGTCATCAAGTATGGACATTAAAG   |

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|               |                               | AGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTCTGATAACCTGCTCCATCCTGGCCATTACCTAATCTCAGTAATGGAATTGTGATATGCTGCCTGACCTACTGCTTGCCCCAAGATGCAGGGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGTACGCCCTGTATGA  |
| SEQ ID NO:170 | Round 2<br>CTLA4BP<br>5x2-f3  | ATGAGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTCAGCTCTGGTCTGGCTAGTCTTCTCACTTCTGTTCACTGCTGGTACAATGTTCTGTTGAAGAGCTGGCACAAACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGCCTGGGACATGAATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGTGATTCTGGCTCTGCCTGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAGGTATGAAAAAGATGCTTCAGCGGGAAACACCTGGCTGAAGTGAACGTTACGTCAAAGCTGACTTCCCTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAAATATTAGAAGGATAATTGCTCAACCTCCGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGGAGAAGAATTAAATGCCATCAACACAAACAGCTTCCAAGATCCTGAAACTGAGCTCTATGTTAGCAGCAAC TGGATTCAATATGACAACCAATCGCAGTTTGTTGTGTCATCAAGTATGGACATTAAAGAGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTCTGATAACCTGCTCCATCCTGGCCATTACCTAATCTCAGCAAATGGAATTGTGATATGCTGCCTGACCCACTGCTTGCCCCAAGATGCAGAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGTACGCCCTGTATAG              |
| SEQ ID NO:171 | Round 2<br>CTLA4BP<br>5x2-e12 | ATGAGCCACACACGGAGGCAGGGAAATATCACCATCCAAGTGTCCGTACCTCAAGTTCTTCAGCTCTGGTCTGGCTTTCTCATTTCTGTTCACTGCTGGTACAATGTTCTGTTGAAGAGCTGGCACAAACTCGCATCCACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGAATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGTGATTCTGGCTCTGCCTGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAGGTATGAAAAAGACGCTTCAGCGGGAAACACCTAGCTGAAGTGAACGTTACGTCAAAGCTGACTTCCCTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAAATATTAGAAGGATAATTGCTCAACCTCTGGAGGTTTCCAGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAATGCCATCAGCACAACAGTTCCAAGATCCTGGAACTGAGCTCTATGCTGTTAGCAGCAAC TGGATTCAATATGACAACCAATCGCAGTTTGTTGTGTCATCAAGTATGGACATTAAAGAGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTCTGATAACCTGCTCCATCCTGGCCATTACCTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGACCTACTGCTTGCCCCAAGATGCAGAGAGAGAAGGGAGAATGAGAGATTGAGAAGGGAAAGTGTACGCCCTGTATAG                |
| SEQ ID NO:172 | Round 2<br>CTLA4BP<br>2x4-h11 | ATGGGCTACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTCAGCTCTGGCTGGCTTGTCTTCTCATTCTGTTCACTTCTGTTCACTGCTGGTACAATGTTCTGTTGAAGAGCTGGCACAAACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGAATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGTGATTCTGGCTCTGCCTGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGGAGTATGAAAAAGACGCTTCAGCGGGAAACACCTGGCTGAAGTGTGTTACCGTCAAAGCTGACTTCCCTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAACTTAGAAGGATAATTGCTCAACCTCTGGAGGTTTCCAGGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAATGCCATCAACACAAACAGTTCCAAGATCCTGGAACTGAGCTCTATGCTGTTAGCAGCAAC TGGATTCAATATGACAACCAACACAGCTTCACTGTTGTTGTGTCATCAAGTATGGACATTAAAGAGTGAATCAGACCTCAACTGGAATACACCCAAGCAAGAGCATTCTGATAACCTGCTCCATCCTGGCCATTACCTAATCTCAGTAAATGGAATTGTGATATGCTGCCTGGCCTACTGCTTGCCCCAAGATGCAGAGGGAGAAGGGAGAATGAGAGATTGAGAAGGGAAAGTGTACGCCCTGTATGA |
| SEQ ID NO:173 | Round 2<br>CTLA4BP<br>2x3-h2  | ATGGGCCACACACGGAGGCAGGGAAACATCACCATCCAAGTGTCCGTACCTCAATTCTTCAGCTCTGGCTGGCTTGTCTTCTCACTTCTGTTCACTGCTGGTACAATGTTCTGTTGAAGAGCTGGCACAAACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGACATGAATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGTGATTCTGGCTCTGCCTGGCCATCTGACGAGGGCACATACGAGTGTGTTCTGAGGTATGAAAAAGATGCTTCAGCGAGAACACCTGGCTGAAGTGTGTTACCGTCAAAGCTGACTTCCCTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAACTTAGAAGGATAATTGCTCAACCTCTGGAGGTTTCCAGAGCCTCGCCTGGATGGAAGATGGGAGAAGAACTAAATGCCATCAGCACAACAGTTCCAAGATCCTGGAACTGAGCTCTATGCTGTTAGCAGCAAC   |

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|               |                   | TGGATTCAATATGACAACCAACCACAGCTTCATGTGTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTCAACTGGAATACAACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCAATCTCAGTAAGGGATTGGTATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGGAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATAG  |
| SEQ ID NO:174 | Round 2 CD28A12-5 | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWRKDSKMLA I LPGVQVWPEYKNRTITDMNDNLRIVI ALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG            |
| SEQ ID NO:175 | Round 2 CD28A4-5* | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTLSQDPETKLYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG            |
| SEQ ID NO:176 | Round 2 CD28A4-9  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCPACRHVARWKTRRNEETVGTERL SPIYLGSQAQSRAEV<br>PSLSX |
| SEQ ID NO:177 | Round 2 Cd28A6-9  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG             |
| SEQ ID NO:178 | Round 2 CD28A6-1  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPETKLYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG             |
| SEQ ID NO:179 | Round 2 CD28A8-4  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG            |
| SEQ ID NO:180 | Round 2 CD28A8-6  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMPSCDY NTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVVQK<br>NENGSRREHLSVTL SIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>LNANVNTVDQDLDTELYSVSSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG             |
| SEQ ID NO:181 | Round 2 CD28B2-8  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLI KYGELVS QIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIYLGSQAQSSG            |
| SEQ ID NO:182 | Round 2 CD28B4-3  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGD LTSQTFY WQESKPTPSAN<br>QHLTWIIIIPVSAFGISVIIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP                     |
| SEQ ID NO:183 | Round 2 CD28B6-3  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGD LTSQTFY WQESKPTPSAN<br>QHLTWIIIIPVSAFGISVIIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP                     |
| SEQ ID NO:184 | Round 2 CD28B6-6  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFC SGITPKS VTKRVKETVMLSCD YNTSTEEL<br>TSLRIYWQKDSKMLA I LPGVQVWPEYKNRTITDMNDNPRIVI ALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVTL SIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE   |

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|                  |                      | ELNAVNTTVDQDLDTELYSVSSELDFNATNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVPVSGALVLTAVVLYCLACRHVAR  |
| SEQ ID<br>NO:185 | Round 2<br>CD28B8-5* | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTLSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG     |
| SEQ ID<br>NO:186 | Round 2<br>CD28C11-5 | MGHTMKWGLPPKRCPCLWPSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIACLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG    |
| SEQ ID<br>NO:187 | Round 2<br>CD28C6-1  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARHGARWKTRRNEETVGTERLSPYIYLGSAQSSG |
| SEQ ID<br>NO:188 | Round 2<br>CD28C7-3  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLSVRLMIRADFPVPSITDIGHPAPNVKIRCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG    |
| SEQ ID<br>NO:189 | Round 2<br>CD28C8-6  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG     |
| SEQ ID<br>NO:190 | Round 2<br>CD28C9-5* | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARXKRTRRNEETVGTERLSPYIYLGSAQSSG    |
| SEQ ID<br>NO:191 | Round 2<br>CD28C2-4  | MGHTLRPGTPLPRCLHLKLCLLALAGLFSSGISQVTKSVKEMAALSCDYNISIDEARM<br>RIYWQKDQQMVLSIISGVQEVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>KGAYKPEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTLSQDPETKLYMISSLEDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQH<br>LWTIIIPVSAFGISVIIAVILTCLTCRNAAIRRORRENEVMQSCSQSP                   |
| SEQ ID<br>NO:192 | Round 2<br>CD28D2-3  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPIDQ<br>LFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG    |
| SEQ ID<br>NO:193 | Round 2<br>CD28D2-9  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTLSQDPETEYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG     |
| SEQ ID<br>NO:194 | Round 2<br>CD28D8-9  | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>EELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPID<br>QLPFWIVIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG    |
| SEQ ID<br>NO:195 | Round 2<br>CD28D11-1 | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVVQK<br>NENGSRREHLSVTLSIRADFPVPSITDIGHPAPNVKIRCSASGDFPEPRLAWMEDGE<br>LNAVNTTVDQDLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSPKPQEPPIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPYIYLGSAQSSG      |
| SEQ ID<br>NO:196 | Round 2<br>CD28D12-5 | MGHTMKWGLPPKRCPCLWSQLLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK   |

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|                  |                       | PVLKGAYKLEHLASVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPIDQLP<br>FWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:197 | Round 2<br>CD28E10-6  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNAVNTTLSQDPETELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:198 | Round 2<br>CD28F7-2   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPEPRLAWMEDGE<br>ELNAVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG |
| SEQ ID<br>NO:199 | Round 2<br>CD28F8-4   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNAVNTTLSQDPETKLYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:200 | Round 2<br>CD28F10-2  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG |
| SEQ ID<br>NO:201 | Round 2<br>CD28F12-5* | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG |
| SEQ ID<br>NO:202 | Round 2<br>CD28G2-8   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPSINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNAVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:203 | Round 2<br>CD28G1-5   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVVQK<br>NENGSRREHLSVTLSIRADFPVSSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>LNADVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>LPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG     |
| SEQ ID<br>NO:204 | Round 2<br>CD28G1-9   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVQDLDTELYSVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG |
| SEQ ID<br>NO:205 | Round 2<br>CD28H4-3   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNAVNTTLSQDPETKLYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:206 | Round 2<br>CD28H11-3  | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNAVNTTLSQDPETKLYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>QLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID<br>NO:207 | Round 2<br>CD28H6-6   | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLA1LPGVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ATNTTVQDLDTELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPQEPPID<br>FWVIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG          |
| SEQ ID           | Round 2               | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL  |

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| NO:208        | CD28E2-4          | TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG   |
| SEQ ID NO:209 | Round 2 CD28B4-5a | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG        |
| SEQ ID NO:210 | Round 2 CD28A2-5  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYSVSSELDFNMTSNHSFLCLVKYGD LTSQTFYWQESKPTPSAN<br>QH LTWT III PVSAFGISVIIAVILTCLTCR NAAIRRQRRENEGKCKVLSV SIGTKLKFN R |
| SEQ ID NO:211 | Round 2 CD28B4-5* | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVVQK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG       |
| SEQ ID NO:212 | Round 2 CD28D5-6  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PVLKGAYKLEHTSVR L MIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSLEDFNMTSNHSFLCLVKYGD LTSQSFYWQESKPTPSAN<br>QH LTWT III PVSAFGISVIIAVILTCLTCR NAAIRRQRRENEVEMQSCSQSP           |
| SEQ ID NO:213 | Round 2 CD28D10-4 | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVVQK<br>NENG SFRREHTSVTLSIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG        |
| SEQ ID NO:214 | Round 2 CD28E2-5* | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSLEDFNMTSNHSFLCLVKYGD LTSQTFYWQESKPTPSAN<br>QH LTWT III PVSAFGISVIIAVILTCLTCR NAAIRRQRRENEVEMQSCSQSP            |
| SEQ ID NO:215 | Round 2 CD28E5-2  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PDLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSLEDFNVTNNRSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG        |
| SEQ ID NO:216 | Round 2 CD28E8-6  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PVLKGAYKLEHTSVR L MIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSLEDFNFTSNHSFLCLVKYGD LTSQTFYWQESKPTPSAN<br>QH LTWT III PVSAFGISVIIAVILTCLTCR NAAIRRQRRENEVEMQSCSQSP           |
| SEQ ID NO:217 | Round 2 CD28E9-6  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PDLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTELYMISSLEDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG        |
| SEQ ID NO:218 | Round 2 CD28F3-1  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVIQK<br>PDLKGAYKLEHTSVR L MIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENK<br>ELNATNTTLSQDPETKLYMISSLEDFNMTSNHSFLCLVKYGD LTSQTFYWQESKPTPSAN<br>QH LTWT III PVSAFGISVIIAVILTCLTCR NAAIRRQRRENEVEMQSCSQSP            |
| SEQ ID NO:219 | Round 2 CD28F3-5  | MGHTMKWGLPPKRCPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVVQK<br>NENG SFRREHTSVTLSIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYSVSSELDFNMTSNHSFLCLVKYGD LTSQSFYWQESKPTPSAN<br>QH LTWT III PVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSQAQSSG     |

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| SEQ ID NO: 220 | Round 2 CD28F3-6      | MGHTMKW GSLPPKRPCLRLSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYSTSTEEL TSLRIYWKD SKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK PDLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN GEELNATNTTLSQDPETKLYMISSELDNFVNTNNHSTVCLIKYGELS VSQIFPWSKPKQEPPID QLPFWVII PVSGALVLTAVVLYCLACRHVARWKRT RRNEETVGTERL SPIYLGSAQSSG                                |
| SEQ ID NO: 221 | Round 2 CD28F11-8     | MGHTMKW GSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL TSLRIYWKD SKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN GEELNATNTTLSQDPETKLYMISSELDNFNMTSNLCLVKYGD LTVSQT FWQESKPTPSANQHL TWTIIIPVSAFGISVIIAVILTCLTCR NAAIRQRRENEVEMQSCSQSP   |
| SEQ ID NO: 222 | Round 2 CTLA4 5x9-d10 | MSHTRRQGTSPSKCPYLKFFQFLV LASL SHFC SGV I HVT KEV AT LSC GHN VS VEELAQ TRIYWKGKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV LEYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AINTTASQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTHCFAPCRERRRNERLRRESARPV      |
| SEQ ID NO: 223 | Round 2 CTLA4 5x6-f6  | MGYTRRQGTSPSKCPYLKFFQFLV LASL SHFC SGV I HVT KEV AT LSC GHN VS VEELAQ TPIYWKQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AINTT VSQDPGTE LYTVSSKLD FNMTD RSV C LIKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISANGIFVICCLTYRFAPCRERRRNERLRRESVCV   |
| SEQ ID NO: 224 | Round 2 CTLA4 5x5-h12 | MGYTRRQGISPSKCPYLKFFQFLV LASL SHFC SGV I HVT KK KEV AT LSC GHN VS VEELAQ TRIHWQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AINTT VSQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTYCFAPCRERRRNGLRRESVRPV |
| SEQ ID NO: 225 | Round 2 CTLA4 5x5-c10 | MSHTQRQGISPSKCPYLNFFQFLV LASL SHFC SGV I HVT KEV AT LSC GHN VS VEELAQ TRIYWKQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV LEYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AISTT VSQDPGTE LYAVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVHPV   |
| SEQ ID NO: 226 | Round 2 CTLA4 5x3-e8  | MGHTRRQGTSPSKCPYLKFFQFLVLAGL SHFC SGV I HVT KEV AT LSC GHN VS VEELAQ TRIYWKQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AINTT VSQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVHPV   |
| SEQ ID NO: 227 | Round 2 CTLA4 5x3-c4  | MSHIRRQGISPSKCPYLNFFQFLVACLSHFC SGV I HMT KEV AT LSC GPN VS VEELAQ TRIYWKQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPRLAW MEDGEELN AISTT ASQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLF PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVHPV      |
| SEQ ID NO: 228 | Round 2 CTLA4 5c3-c3  | MSHTRRQGTSPSKCPYLKFFQFLV LASL SHFC SGV I HMT KEV AT LSC GPN VS VEELAQ TRIYWKQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AINTT VSQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTHCFAPCRERRRNERLRRESVCPV  |
| SEQ ID NO: 229 | Round 2 CTLA4 5x2-h11 | MSHTRRQGISSSSKCPYLKFFQFLVACLSHFC SGV I HMT KEV AT LSC GHN VS VEELAQ TRIYWKGKKMVL TMM MSGDM NI WPECKN RT IF DIT NN L SIVI ALR PSDE GT YEC AVL KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AISTT ASQDPGTE LYAVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTYCFAPCRERKSNERLRRESVHPV       |
| SEQ ID NO: 230 | Round 2 CTLA4 5x2-d7  | MGYTRRQGTSPSECPYLKFFQFLVLAGL SHFC SGV I HMT KEV AT LSC GHN VS VEELAQ TRIHWQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ISDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AISTT VSQDPGTE GLYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVHPV   |
| SEQ ID NO: 231 | Round 2 CTLA4 5x2-b7  | MSHTRRQGISPSKCPYLNFFRLLV LASL SHFC SGV I HVT KEV AT LSC GHN VS VEELAQ TRIHWQKEKKMVL TMM MSGDM NI WPEY KNRT IF DIT NN L SIVI ALR PSDE GT YEC VV L KYE KDAFKREH LAEV M LS VKAD FPT PS ITDF EIPPSN IRRI IC STSG GFPEPHL FWLEN GEELN AISTT VSQDPGTE LYTVSSKLD FNMTNHS FMCL IKYGH LRVN QTFN WNT PKQEH FPD NLL   |

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|                |                             | PSWAITLISANGIFVICCLTYCFAPRCRERRNERLRRESVRPV   |
| SEQ ID NO: 232 | Round 2<br>CTLA4<br>5x2-b1  | MSHTRRQGISPSKCPYLKFFQLLVLASLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEHKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSJKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTQSQDPETELYTGSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRNETLRRESVRPVWGTLKFKPXIS |
| SEQ ID NO: 233 | Round 2<br>CTLA4<br>5x1-f1  | MGHTRRQGISPSKCPYLKFFQLLVLASLSHFCGVIHVTKEVATLSCGLNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEHKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLSVKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRNETLRRESVRPV            |
| SEQ ID NO: 234 | Round 2<br>CTLA4<br>5x1-d7  | MGYTRRQGTSPSKCPYLNFFQLLVLASLSHFCGVIHVTKEVATLSCGHNVPVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYGCVVLEYE<br>KDAFKREHLAEVMLSJKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYAVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRNERLRRESVHP             |
| SEQ ID NO: 235 | Round 2<br>CTLA4<br>2x4-g9  | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKDMMVLTMMMSGDMNIWPEYKNQTIIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKQEHLAEVMLSJKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AISTTQSQDPGTTELCTVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVKGIFVICCLTYCFAPRGRERKSNGRLRRESVHP           |
| SEQ ID NO: 236 | Round 2<br>CTLA4<br>2x4-a6  | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSJKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AISTTQSQDPETELYAXSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCPTYCFAPRCRERRNERLRRESVCPV            |
| SEQ ID NO: 237 | Round 2<br>CTLA4<br>2x2-f3  | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIYVTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLIMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTECVVLKYEK<br>DAFKREHLAEVTLSVKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELNA<br>INTTQSQDPGTTELTVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLLP<br>SWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVCPV              |
| SEQ ID NO: 238 | Round 2<br>CTLA4<br>2x2-f12 | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYGCVVLEYE<br>KDAFKREHLAEVMLSJKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTQSQDPETELYAVSSKLDNFNMTNHSFMCLIYGHRLRANQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVRPV            |
| SEQ ID NO: 239 | Round 2<br>CTLA4<br>2x1-g8  | MGYTRRQGTSPSKCPYLNFFQLLVLASLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSVIVALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLSVKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTQSQDPGTTELTVSSKLDNFNMTNRSFVCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVRPV             |
| SEQ ID NO: 240 | Round 2<br>CTLA4<br>2x1-f10 | MGYTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSJKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AINTTQSQDPGTTELAVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGISVICCLTYCFAPRCRERRNERLRRESVCPV            |
| SEQ ID NO: 241 | Round 2<br>CTLA4<br>2x1-c9  | MSHTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSAEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSJKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AISTTASQDPETELYTVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRNERLRRESVCPV            |
| SEQ ID NO: 242 | Round 2<br>CTLA4<br>2x1-h12 | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGLNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSJKADFPPTSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTQSQDPGTTELTVSSKLDNFNMTNHSFMCLIYGHRLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVCPV           |
| SEQ ID NO: 243 | Round 2<br>CTLA4<br>2x1-e2  | MGYTRRQGISPSKCPYLKFFQLLVLAGLSHFCGVIHVTKEVATLSCGHNVSDEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLSVKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN  |

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|                |                             | AINTTVSQDPGTELYTVSSKLDNFNMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSAITLISANGIFVICCLTYCFAPCRERRRNERLRRESIHPV   |
| SEQ ID NO: 244 | Round 2<br>CTLA4<br>2x1-c4  | MGYTRRQGISPSKCPYLKFQLLVLAGLSHLCGVIVHTKEVATLPCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLEAEMLSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPGTELYAVSSKLDNFNMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVRPV  |
| SEQ ID NO: 245 | Round 2<br>CTLA4<br>2x1-b12 | MGHTRRQGISPSKCPYLKFQLLVLAGLSHLCGVIVHMTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVALKYE<br>KDAFKQEHLAEVTLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AINTTVSQDPETELYTVSSKLDNFNMTANHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVCV  |
| SEQ ID NO: 246 | Round 2<br>CTLA4<br>2x2-f1  | MGHTRRQGISPSKCPYLKFQLLGLACLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFNMTTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVRPV  |
| SEQ ID NO: 247 | Round 2<br>CTLA4<br>5x4-h1  | MSHTRRQGISPSKCPYLKFQLLVLACLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKRKHLAEVMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFNMTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNETLRRESVHPV   |
| SEQ ID NO: 248 | Round 2<br>CTLA4<br>5x4-a1  | MGHTRRQGTSPSKCPYLKFQLLVLACLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMPGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTELYTVSSKLDNFNMTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVRPV  |
| SEQ ID NO: 249 | Round 2<br>CTLA4<br>5x2-f3  | MSHTRRQGISPSKCPYLKFQLLVLASLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMPGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLRYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFNMTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISANGIFVICCLTHCFAPCRERKSNERLRRESVRPV  |
| SEQ ID NO: 250 | Round 2<br>CTLA4<br>5x2-e12 | MSHTRRQGISPSKCPYLKFQLLVLAGLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMGGMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AISTTVSQDPGTELYAVSSKLDNFNMTNRSFVCLIKYGHLRVNQTFNWNTTKQEHFPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPCRERRRNERLRRESVRPV   |
| SEQ ID NO: 251 | Round 2<br>CTLA4<br>2x4-h11 | MGYTRRQGTSPSKCPYLKFQLLVLACLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTELYAVSSKLDNFNMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLL<br>PSWAITLISVNGIFVICCLAYCFAPCRGRNRNERLRRESVRPV   |
| SEQ ID NO: 252 | Round 2<br>CTLA4<br>2x3-h2  | MGHTRRQGTSPSKCPYLNFQLLVLACLSHFCGVIVHTKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKKMVLTMMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLEAEMLSVKADFPPTPSISDFEIPTSNIRRIICSTPGGFPEPRLAWMEDGEELN<br>AISTTVSQDPGTELYAVSSKLDNFNMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDNLL<br>PSWAITLISVKGIFVICCLTYCFAPRWERKSNERLRRESVRPV  |
| SEQ ID NO: 253 | Round 2<br>CTLA4<br>A-H3-6  | ATGGGCCACACGCTGAGGCCGGGAACCTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTGGCGCTGGCGGGCTCCACTCTCTCAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAAATGGCAGCACTGTCCTGTGATTACAACATTCTATCGATGAACTGGCGAGAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTGGCAAGTGGAG<br>TGTGGCCTGAGTACAAAAACGCACCTCCCGACATCATTAACAACCTCTCCCTTATGAT<br>CCTGGCACTGCGCCTGCGACAAGGGCACCTACACCTGCGTGGTTAGAAGAATGAGAAC<br>GGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTCCCTG<br>TCCCTAGCATAAATGATCTTGGAAATCCATCTCTTAATATCAGAAGGCTAATTGCTCAAC<br>CTCTGGAGGTTTCCAAGGCCACCTCTACTGGTTGGAAAATGGAGAAGAATTAATGCT<br>ACCAACACAACACTGTCCAAGATCCTGAAACCAAGCTCTACATGATTAGCAGTGAACTGG<br>ATTTCAACATGACAAGCAATCACAGCTTCTGTGTCAGAGTATGGAGACTAACAGT<br>GTCACAGACCTCTACTGGCAAGAACCAACCCCTCTGCTAATCAGCACCTGACC |

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|                   |                             | TGGACCATTATTATCCCAGTCTCAGCATTGGGATTTCTGTGATCATTGCAGTTACTAA<br>CATGCCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGGAAAT<br>GCAAAGTTGCTCTCAGTCTCCATGAG  |
| SEQ ID<br>NO: 254 | Round 2<br>CTLA4<br>A-B11-5 | ATGGGTACACAAATGGAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGTGTTTCAAAG<br>CCTGATTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACATGAGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGA<br>GAATTAAATGCTACCAACACAAACACTGCCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACGGGTTCAACATGACAAGCAATCACAGCTTCTGTGTTGCAAGTATGG<br>AGACTTAACAGTGTACAGACCTACTGGCAAGAATCCAAACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGGGATTTCTGTGATCATTGAG<br>CAGTTACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG |
| SEQ ID<br>NO: 255 | Round 2<br>CTLA4<br>A-E2-6  | ATGGGCCACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGGGCACCTACACCTGCGTGGTTCAAAG<br>AATGAGAACGGGCTTTCAAGCAGGGAGCACCTGACTTCGTGAGGTTAATGATCAGAGCTG<br>ACTTCCCTGCCCCACATGAGGAAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGA<br>TTAAATGCTACCAACACAAACACTGCCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACGGATTCAACATGACAAGCAATCACAGCTTCTGTGTTGCAAGTATGGAGA<br>CTTAACAGTGTACAGACCTACTGGCAAGAATCCAAACCAACCCCTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGGGATTTCTGTGATCATTGAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG    |
| SEQ ID<br>NO: 256 | Round 2<br>CTLA4<br>A-F1-6  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGGGCACCTACACCTGCGTGGTTCAAAG<br>AATGAGAACGGGCTTTCAAGCAGGGAGCACCTGACTTCGTGAGGTTAATGATCAGAGCTG<br>ACTTCCCTGCCCCACATGAGGAAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGA<br>TTAAATGCTACCAACACAAACACTGCCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACGGATTCAACATGACAAGCAATCACAGCTTCTGTGTTGCAAGTATGGAGA<br>CTTAACAGTGTGCGCAGACCTACTGGCAAGAATCCAAACCAACCCCTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGGGATTTCTGTGATCATTGAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAGATGCAAAGTTGCTCTCAGTCTCCATAG  |
| SEQ ID<br>NO: 257 | Round 2<br>CTLA4<br>A-F6-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTC<br>AGCTCTGGTGCTCACTGGCTTTTACTTCAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAATGGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCG<br>TATTGTGATCCTGGCTCTGGCCTGCGACAGTGGCACCTACACCTGCGTGGTTCAAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTTCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGCCCCACATGAGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGAAAATGGAGA<br>GAATTAAATGCTACCAACACAAACACTGCCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACGGATTCAACATGACAAGCAATCACAGCTTCTGTGTTGCAAGTATGG   |

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|                  |                             | AGACTTAACAGTGTACAGACCTTCACTGGCAAGAACCAACCCCTTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCAGCATTGGGATTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCATGA   |
| SEQ ID<br>NO:258 | Round 2<br>CTLA4<br>A-H4-5* | ATGGGTACACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCCTGCGACAAGGGCACCTACACCTGCCTGGTTAGAAG<br>AATGAGAACGGGCTTTCAAGCGGGGACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCACCATAAATGATCTGAAATCCATCTCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAAACTGTCCAAGATCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACCTGGATTCAACATGACAAGCAATCACAGCTTGTGTCTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCTCTACTGGCAAGAACCAACCCCTCTGTAATCAG<br>CACCTGACCTGGACCATTATTATCCCGTCTCAGCATTGGGATTCTGTGATCATTGAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG |
| SEQ ID<br>NO:259 | Round 2<br>CTLA4<br>A-B4-6  | ATGGATCACACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCCTGCGACAAGGGCACCTACACCTGCCTGGTTAGAAG<br>AATGAGAACGGGCTTTCAAGCGGGGACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCACCATAAATGATCTGAAATCCATCTCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAAACTGTCCAAGATCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACCTGGATTCAACATGACAAGCAATCACAGCTTGTGTCTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCCCTACTGGCAAGAACCAACCCCTCTGTAATCAG<br>CACCTGACCTGGACCATTATTATCCCGTCTCAGCATTGGGATTCTGTGATCATTGAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG |
| SEQ ID<br>NO:260 | Round 2<br>CTLA4<br>A-F10-1 | ATGGGTACACACAATGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCCTGCGACAAGGGCACCTACACCTGCCTGGTTAGAAG<br>AATGAGAACGGGCTTTCAAGCGGGGACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGCCCCACCATAAATGATCTGAAATCCATCTCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAAACTGTCCAAGATCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACCTGGATTCAACATGACAAGCAATCACAGCTTGTGTCTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCCCTACTGGCAAGAACCAACCCCTCTGTAATCAG<br>CACCTGACCTGGACCATTATTATCCCGTCTCAGCATTGGGATTCTGTGATCATTGAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG  |
| SEQ ID<br>NO:261 | Round 2<br>CTLA4<br>A-G8-1  | ATGGGTACACAGTGAAGTGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTGGTGCCTACTGGCTTTTACTTCTGTTAGGCATACCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCTGAGTACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>TATTGTGATCTGGCTCTGCCCTGCGACAAGGGCACCTACACCTGTGTTATTAGAAG<br>CCTGATTGAAAGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGCCCCACCATAAATGATCTGAAATCCATCTCTAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCACCTACTGGTTGAAAATGGAGAAGAA<br>GAATTAAATGCTACCAACACAAACTGTCCCAAGATCTGAAACCAAGCTCTACATGATTA  |

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|                |                             | GCAGTGAACGGATTCAACATGACAAGCAATCACAGCTCTTGTCTGTCAAGTATGGAGACTTAACAGTGTACAGAACCTACTGGCAAGAATCCAAACCAACCCCTGCTGTAATCAGCACCTGACCTGGACCATTATTATCCCAGTCAGCATTGGGATTCTGTGATCATTGAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGGAAATGCAAAGTGTCTCATGCTCCATGA   |
| SEQ ID NO: 262 | Round 2<br>CTLA4<br>A-C9-9  | ATGGGTACACAAATGAAGTGGGATCACTACCACCCAAGCGCCATGCCCTGGCTCTCTCAGCTCTGGTCACGGCTCTTCTGTTAGGCATCCCCAAAGAGTGTGACCAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTGACAAGCCTCGGATCTATTGGCAAAAGGGATAGTAAAATGGTGTGGCCATCTGCCTGGAAAGTGAGGTGTGGCTGAGTACAAAAACCGCACCTCCCCGACATCATTAACAAACCTCTCCTTATGATCCTGGCACTGGCCTGTCGGACAGGGGACCTACACCTGCGTGGTCAGAAGAATGAGAACGGGTCTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCTGGCTAATGTGAAAAGGATAAGATGCTCCGCCTCTGGAGGTTTCCAGAGCCTGCCCGCCTGGATGGAAGATGGAGAAGAACAAACGGCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTCTACAGCGTCGGCGTAGAACTGGATTCAATGTGACAAATAACCACAGCATCGTGTCTCATCAAATACGGGAGCTGTCGGTGTACAGATCTCCCTGGAGCAAAACCAAGCAGGAGCCTCCCATTGATCAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGTCTGGTCTACTGCGTAGTTCTACTGCCTGGCCCGAGACATGTTGCGAGGTGGAAAAGAACAAAGAAGGAAATGAAGAGACAGTGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCCAATCCTGGCTGAG |
| SEQ ID NO: 263 | Round 2<br>CTLA4<br>A-H3-6  | MGHTLRPGTPLPRCLHLKLCLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARMRIYWQKDQQMVLISIISGQVEWPEYKNRTFPDIINNLSLMILALRLSDKGTYTCVVQKNEGSFRREHLSVTLSIRADFPVPSINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNAATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 264 | Round 2<br>CTLA4<br>A-B11-5 | MGHTMEWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSATKRVKETVMLSCDYSTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDSGTYTCVIQKPDLKGAYKLEHLSVRLMIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLTWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 265 | Round 2<br>CTLA4<br>A-E2-6  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDSGTYTCVVQKNENGSRREHLSVRLMIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLTWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 266 | Round 2<br>CTLA4<br>A-F1-6  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDSGTYTCVVQKNENGSRREHLSVRLMIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLTWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 267 | Round 2<br>CTLA4<br>A-F6-9  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDSGTYTCVVQKNENGSRREHLSVRLMIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLTWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 268 | Round 2<br>CTLA4<br>A-H4-5* | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDSGTYTCVVQKNENGSRREHLSVTLSIRADFPVPSIDIGHPAPNVKRIRCSASGGFPEPRLYWLENGEELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLIYGELSVSQIFPWSKPKQEPPIDQLPFWVIIPVSGALVLTAVVLYCLACRHVARWKTRRRNEETVGTERLSPYLGSAQSSG   |
| SEQ ID NO: 269 | Round 2<br>CTLA4<br>A-B4-6  | MDHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDKGTYTCVVQKNENGSRREHLSVTLSIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLTWTIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 270 | Round 2<br>CTLA4<br>A-F10-1 | MGHTMKWGSLLPPKRPLWLSQLLVPTGLFYFCGIGTPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMLAIIIPGKVQVWPEYKNRTITDMNDNPRIVIALRLSDKGTYTCVVQKNENGSRREHLSVTLSIRADFPVPTINDGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQTLYWQESKPTPSANQ   |

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|                |                            | HLWTWIIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP   |
| SEQ ID NO: 271 | Round 2<br>CTLA4<br>A-G8-1 | MGHTVKWGLPPKRPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALPLSDSGFTYCVIQQ<br>PDLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSELDNFNMTSNHSFLCLVKYGDLSVQTFYQESKPTPSAN<br>QHLWTWIIIIPVSAFGISVIIAVILTCRCAAIRQRRENEVEMQSCSQSP  |
| SEQ ID NO: 272 | Round 2<br>CTLA4<br>A-C9-9 | MGHTMKWGLPPKRPCLWSQLLVLTGLFYFCSGITPKSVTKRVETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTFPDIINNLMLALRLSDRGTYCVVQK<br>NENGSSRREHLSVTLSIRADFPVPSIDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVQDQLDTELYSVGSELDNFNVTNNHSIVCLIKYGELSVSQUIPWWSKPKQEPPIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLARRHVARWKTRRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID NO: 273 | Human B7-1                 | ATGGGCCACACACGGAGGCAGGAACATCACCATCCAAGTGTCCATACCTCAATTCTTTC<br>AGCTCTTGGTGCTGGCTGGCTTTCTCACTTCTGTTCACTTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACTAATAACCTCTCCATTGT<br>GATCCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGACGCTTCAGCGGGAACACCTGGCTGAAGTGAACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTGAATTCAACCTCTAAATATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTCTGAGCCTCACCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTCCAAGATCCTGAAACTGAGCTCTATGCTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAACCAGCTTCATGTGTCTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTAGTAAATGGAATTGGATATGCTGCCTGACCT<br>ACTGCTTGCCCCAAGATGCAAGAGAGAGAAGGGAGATTGAGAGATGAGAAGGAAAGTGT<br>ACGCCCTGTATGA                  |
| SEQ ID NO: 274 | Rhesus B7-1                | ATGGGCCACACACGGAGGCAGGAATATCACCATCCAAGTGTCCATACCTCAAGTCTTTC<br>AGCTCTTGGTGCTGGCTTGCTTTCTCATTCTGTTCACTTCTGTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAGAAGTGGCAACGCTGTCCTGTGGTCACAATGTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCAGTACAAGAACCGGACCATCTTGATATCACAAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTCTGAAGTATGAA<br>AAAGATGCTTCAGCGGGAACACCTGGCTGAAGTGTGTTATCCGTCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTCTGAAATTCCACCTCTAACATTTAGAAGGATAATTGCTC<br>AAACTCTGGAGGTTTCCAGAGCCTCACCTCTGGTTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAGCACAACAGTTCCAAGATCCTGAAACTGAGCTCTACTGTTAGCAGCAAAC<br>TGGATTCAATATGACAACCAATCACAGTTCTGTCATCAAGTATGGACATTAAAG<br>AGTGAATCAGACCTTCAACTGGAACACACCCAAAGCAAGAGCATTCTGATAACCTGCTC<br>CCATCTGGGCCATTATCCTAACATCTAGTAAATGGAATTGGATATGCTGCCTGACCT<br>ACTGTTTGCCCCAAGGTGCAGAGAGAGAAGAAGGAAATGAGACATTGAGAAGGAAAGTGT<br>ACGCCCTGTATGA               |
| SEQ ID NO: 275 | Bovine B7-1<br>(cow)       | ATGGGTACACAAATGAAGTGGGAACACTACCACCCAAGGCCCATGCCCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGCTTTTACTCTGTTCAAGGCATCCCCAAAGAGTGTGAC<br>CAAAGAGTGAAGAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTCGGATCTATTGGAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAAGTGCAGGTGTGGCCTGAATACAAGAACCGCACCACACTGACATGAACGATAACCCCCG<br>CATTGTGATCCTGGCTTGCCTGTCGGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGATTGAAAGGGCTTATAAAACTGGAGCACCTGACTTCCGTGAGGTTATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAAATATCAGAAGGCT<br>AATTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGCTTCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCACATGACAAGCAATCACAGCTTCTGTGTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTCTACTGGCAAGAATCCAAACCAACCCCTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCTGAGCATTTGGGATTCTGTGATCATTG<br>CAGTTATAACTAACATGCCTGACCTGAGAAATGTCAGCAATACGCAAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGGAAGTTGCTCTCAGTCTCCA |
| SEQ ID NO: 276 | Rabbit B7-1                | ATGGGCCACACGCTGAGGCCGGAACTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTGGCGCTGGCGGGCTCCACCTCTCTCAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAATGGCAGCACTGTCCTGTGATTACAACATTCTATCGATGAACTGGCGAGAATG   |

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|                |   | CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTGGCAAGTGGAAAGTGTGGCTGAGTACAAGAACCGCACCTCCCCGACATCATTAAACAACCTCTCCCTTATGATCCTGGACTGCCTGTCGGACAAGGGCACCTACACCTCGTGACTGTCATCAGAGCTGACTTCCCTGTCCTAGCATAACTGACATTGGACATCCCACCTAATGTGAAAAGATAAGATGCTCCGCCTCTGGAGGTTTCCAGAGCCTCGCCTGGATGGAAGATGGAGAAGAACTAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTACAGCGTCAGCAGTGAACGGAAATTCAATGTGACAAATAACCACAGCAGTCAGTGTCTCATCAAATACGGGGAGCTGCGGTGTCACAGATCTCCCTGGAGCAAACCCAAGCAGGAGCCTCCATTGATCAGCTCCATTCTGGGTATTATCCCAGTAAGTGGTCTTGGTGTCACTGCGTAGTTCTACTGCCTGCCAGACATGTTGAGGTGGAAAAGAACAAAGAAGGAATGAAGAGACAGTGGAACTGAAGGCTGTCCCCATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID NO: 277 | Cat B7-1                                | ATGGGTCA CGCAGCAAAGTGGAAAACACCACTACTGAAGGACCCATATCCAAAGCTCTTC CGCTCTTGATGCTAGCTAGTCTTTTACTTCTGTTAGGTATCATCCAGGTGAACAAGAC AGTGGAAAGAAGTAGCAGTACTATCCTGTGATTACAACATTCCACCAAAGAACTGACGGAA ATTCAATCTATTGGAAAAGGATGATGAAATGGTGTGCGTGTCACTGTCTGGAAAGTAC AAGTGTGGCCCAAGTACAAGAACCGCACATTCACTGACGTACCGATAACCACCTCCATTGT GATCATGGCTCTGCGCCTGTCAAGACAATGGCAAATACACTGTATTATTCAAAGATTGAA AAAGGGTCTTACAAAGTGAACACCTGACTTCGGTGATGTTATTGGTCAAGAGCTGACTTC CTGTCCTAGTATAACTGATCTTGGAAATCCATCTCATAACATCAAAGGATAATGTGCTT AACTCTGGAGGTTTCCAAGCCTCACCTCTGGCTGGAAAATGAAGAAGAATTAAAT GCCATCAACACACAGTTCCAAGATCCTGAAACTGAGCTCTACACTATTAGCAGTGAAC TGGATTTCATATGACAAACAACCATAGCTTCTGTGTTGCAAGTATGGAAACTTACT AGTATCACAGATCTCACTGGAAAATCAGAGCCACAGCCTCTAATAATCAGCTCTGG ATCATTATCCTGAGCTCAGTAGTAAGTGGATTGTTGATCACTGACTTACCTTAAGAT GCCTAGTCCACAGACCTGTCAGGAGACAAAGAGAAATGGGAGAGCGCGGAAATG GAAAAGATCTCACCTGTCTACATAGATTCTGCAGAACCACTGTATGCAGAGCATCTGGAGG TAGCCTCTTAGCTCTACTAG |
| SEQ ID NO: 278 | Human B7-1 (signal sequence underlined) | <u>MGHTRRQGTSPSKCPYLNFQLLVLAGLSHFCSGVIHVTKEVATLSCGHNVSVEELAQ</u> TRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGYECVVLKYE KDAFKREHLAEVTL SVKA DFTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN AINTTVSQDPETELYAVSSKLDNFNMTNHSFMCLIKYGLRVNQTFNWNTPKQEHPDNLL PSWAITLISVNGIFVICCLTYCFAPRCRERRNRERLRESVRPV   |
| SEQ ID NO: 279 | Rhesus B7-1                             | MGHTRRQGISPSKCPYLNFKFQLLVLA CLSHLC SGVIHVTKEVATLSCGHNVSVEELAQ TRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGYECVVLKYE KDAFKREHLAEVML SVKA DFTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN AISTTVSQDPETELYTVSSKLDNFNMTNHSFMCLIKYGLRVNQTFNWNTPKQEHPDNLL PSWAITLISVNGIFVICCLTHCFAPRCRERRNRERLRESVRPV  |
| SEQ ID NO: 280 | Bovine B7-1                             | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL TSLRIYWQKD SKMV LAI LPKGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK PDLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN ELNATNTTLSQDPETKL YMI SSELDFNMTNHSFLCLVKYGD LTSQFYWQESKPTPSAN QH LTWTIIIPVSAFGISVIIAVILTCR NAAIRRQRNEVEMQSCSQSP  |
| SEQ ID NO: 281 | Rabbit B7-1                             | MGHTLRPGTPLP RCLHLKLC LLLA LAGL HFSSG ISQVTKSVKEMAALSCDYNISIDE LARM RIY WQKD QQMVLSIISGQVEVWPEYKNRTFPDIINNL SLMILALRLSDKG TYTCVQKNEN GSFRREHLSV TLSIRADFPVPSITDIGHPAPNVKRIRCSASGGFPEPRLAWMEDGEELNA VNTTVDQDLDTELYVSSELDNFNVTNNHSIVCLIKYGELSVSQIFPW SKPKQEP PIDQLPF WVII PVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIY LGSAQSSG   |
| SEQ ID NO: 282 | Cat B7-1                                | MGHA AKWKTPLL KHPYPKLFPL LMLASL FYFC SGIIQVNKTVEEVAVLSCDYNISTKELTE IRIYWQKDDEMVLAVMSGKVQVWPKYKNRTFTDVTDNHSIVIM ALRLSDNGKYTCI IQKIE KGSYKVKHLSV MLLVRADFPVPSITD LGNPSPNIRRLICSTSGGFPRPHLYWLEN EELNATNTTVSQDPETELYMI SSELDFNVTNNHSIVCLIKYGELSVSQIFPW SKPKQEP PIDQLPF III LSSVVSGIVVITALTLRCLVHRPAARWRQREMGRARKWKRSHLST   |
| SEQ ID NO: 283 | CD28BP Consensus                        | MGHTMKW GSLPPKR PCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL TSLRIYWQKD SKMV LAI LPKGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK PVLKGAYKLEHLSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLEN ELNATNTTVSQDPETELYMI SSELDFNVTNNHSIVCLIKYGELSVSQIFPW SKPKQEP PIDQLPF QLPFWVII PVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERL SPIY LGSAQSSG   |
| SEQ ID         | CD28BP                                  | MGHTMXWXSLPPKXPCLXXXQLLVLTXFYFC SGITPKSVTKRVKETVMLS CDYXTSTE XL  |

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| NO: 284        | CGformC           | TSLRIYWVKDSKMLAILPGKVQVWPEYKNRTITDMNDNXRIVIXALRXSDXGTYTCVXQK<br>PXLKGAYKLEHLXSVRLMIRADFPVPXXXDLGNPSPNIRRLICSSXXGFPRLWXLEN<br>ELNATNTTXSQDPXTLYMISSELXFVNNTNNXSIXCLIKYGELVSQSIFPWSKPKQEPPID<br>QLPFVIIIPVSGALVLXAXVLYXXACRHARWKTRRNEETVGTERLSPYIYLSAQSSG   |
| SEQ ID NO: 285 | CD28BP CG1c       | MGHTMKWRSLPPKRPLWPSQLLVLTDLFYFCSGITPKSVTKRVKETVMLSODYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIHALRPSDKGTYTCVVQK<br>PVLKGAYKLEHLXSVRLMIRADFPVPTINDLGPNPSPNIRRLICSTSGGFPRPHLCWLEN<br>ELNATNTTVSQDPCTELYMISSELGFVNNTNNHSIACLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFVIIIPVSGALVLAAVVLYRPACRHARWKTRRNEETVGTERLSPYIYLSAQSSG |
| SEQ ID NO: 286 | CTLA4BP Consensus | MGHTRRQGISPCKCPYLFFQLLVLA CLSHFCSGVIHVTKEVATLSCGHNVSVEELAQ<br>TRIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECSVVLYE<br>KDAFKREHLAEVMLS VKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTANHSFMC LIKYGHLRVNQTFNWNTPKQEHPDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRESVRPV            |
| SEQ ID NO: 287 | CTLA4BP CGform    | MGHTRRQGTPXKCPYLFFQLLVXA CLXHLC SGVIHVTXEVKEVATLSCGLNVSVEELAQ<br>TRIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECSVVLYX<br>KDAFKRXH LAEVMLS VKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETLYTVSSKLDNFNMTANHSFMC LIKYGHLRVNQTFNWNTPKQEHPXNLL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVCV        |
| SEQ ID NO: 288 | CTLA4BP CG1       | MGHTRRQGTPPEC PCKPYLFFQLLVMACLPHLC SGVIHVTREVKEVATLPCGLNVSVEELAQ<br>TRIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECSVVLYKD<br>KDAFKQKHLAEVMLS VKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFGLE<br>NCEEIN AINTTVSQDPETGLYTVSSKLDNFNMTADHNFMCLIRY GHLRVNQTFNWNTPKQEHPXNPL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVCV   |
| SEQ ID NO: 289 | CTLA4BP CG2       | MGHTRRQGTPSKCKPYLFFQLLVLA CLSHLC SGVIHVTKEVATLSCGLNVSVEELAQ<br>TRIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECSVVLYE<br>KDAFKREHLAEVMLS VKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLEN<br>GEELNAINTTVSQDPETELYTVSSKLDNFNMTANHSFMC LIKYGHLRVNQTFNWNTPKQEHPDNLL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVCV          |
| SEQ ID NO: 290 | CD28BP CGformD    | MGHTMKWGS LPPKRPLWSQLLVLTGLFYFCSGITPKSVTKRVKETVMS CDYXXSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIHALRLSDXGTYTCVXQK<br>XXXXGXXXXEHLXSVXLXIRADFPVPSITDIGHPAPNVKRIRCSASGX FPEPRLAWMEDGE<br>ELNAVNTTVXXXLDTELYSVSSELDNXNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFVIIIXVSGALVLTAVVLYCLACRHVAR                          |
| SEQ ID NO: 291 | CD28BP CG1d       | MGHTMKWGS LPPKRPLWSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNASTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIHALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPSITDIGHPAPNVKRIRCSASGD FPEPRLAWMEDGE<br>ELNAVNTTVQDQDLDTELYSVSSELDNSVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFVIIILVSGALVLTAVVLYCLACRHVAR                       |
| SEQ ID NO: 292 | CD28BP CGformB    | MGHTMKWGX LPPKRPLWSQLLVLTGLFYFCSGXTPKS VTKRVKETVMLS CDYXTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIHALRXSDSGTYTCVIQK<br>PXLKGAYKLEHLXSVRLMIRADFPVPTINDLGPNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTXSQDPETKLYMISSELDFNXTSNXXLCLVKYGDLTVSQFYWQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRQRRENEVXMXSCSQSP       |
| SEQ ID NO: 293 | CD28BP CG1b       | MGHTMKWGT LPPKRPLWSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIHALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGPNPSPNIRRLICSTSGGFPRPHLYWLEN<br>ELNATNTTLSQDPETKLYMISSELDFNMTSNHSFLCLVKYGDLTVSQFYWQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRQRRENEVXMXSCSQSP       |